ENUMERATIO

PLANTARUM ZEYLANIÆ:

AN

ENUMERATION OF CEYLON PLANTS,

WITH

DESCRIPTIONS OF THE NEW AND LITTLE-KNOWN GENERA AND SPECIES, OBSERVATIONS ON THEIR HABITATS, USES, NATIVE NAMES, ETC.

BY

G. H. K. THWAITES, F.L.S.,

DIRECTOR OF THE ROYAL BOTANIC GARDEN, PERADENIA, CEYLON;

Assisted

IN THE IDENTIFICATION OF THE SPECIES AND SYNONYMY

BY

J. D. HOOKER, M.D., F.R.S., F.L.S. & G.S., ETC.

LONDON:
DULAU & CO., 37, SOHO SQUARE.
1864.

Digitized by Google

TO

SIR WILLIAM JACKSON HOOKER, K.H.,

D.C.L. OXON., F.R.S., F.A.S., F.L.S., ETC.,

This Little Work is Dedicated,

IN TESTIMONY OF THE MOST SINCERE RESPECT

AND AFFECTION,

BY HIS OBLIGED FRIEND,

THE AUTHOR.

Digitized by Google

PREFACE.

Since the publication of Linnæus's 'Flora Zeylanica' and Burmann's 'Thesaurus Zeylanicus,' no work has appeared, with the exception of Moon's 'Catalogue,' professing to give a list of the plants indigenous to Ceylon.

Several species of Ceylon plants have been figured and described by Sir William Hooker in his 'Icones Plantarum' and other valuable publications, from specimens collected by the late Colonel and Mrs. Walker; and a good many Ceylon plants have been figured by Dr. Wight in his excellent 'Icones Plantarum Indiæ Orientalis.' Dr. Walker-Arnott has published descriptions of several kinds in his 'Pugillus' and elsewhere.

Most of the *Orchidaceæ* of Ceylon have been described by Dr. Lindley from specimens and drawings sent to him by Mr. Macrae.

My predecessor, Dr. Gardner, contributed to the 'Calcutta Journal of Natural History' descriptions of several interesting Ceylon plants.

References throughout the present work indicate where and by whom other species have been described.

Owing to the physical conformation of the island, which geologically belongs to the Metamorphic system, there is great diversity of climate.

The hills of the Central Province rise to an elevation of 8300 feet, with an annual rainfall of about 100 inches.

The low country of the south of the island possesses a humid climate, with a very equable temperature, and the rainfall is considerable, but not equal to that on the hills.

Digitized by Google

The low northern half of the island, shut off by the hills from the rains of the south-west monsoon, has a rainy season of very short duration, and is usually extremely dry during the remainder of the year.

The character of the island vegetation varies, as might be expected, in accordance with this difference of climatal conditions; for, whilst on the hills the flora resembles very much that of the Neilgherrries, in the humid south it is more akin to that of Sumatra and the Malay Archipelago; and in the dry north of the island it would seem to be nearly identical with that of the Coromandel coast.

The indigenous species enumerated in the present work amount to 2832, viz.:—

Dicotyledones	1959
Monocotyledones	648
Filices, Lycopodiaceæ, and Marsileaceæ .	225

Care has been taken not to multiply species unnecessarily, for observation has shown that the amount of variation is often considerable in plants affecting a large range of variation, and consequently of climate. Instances occur, as in the genera *Hortonia, Mappia, Turpinia, Evonymus, Elæodendron,* in which a more elevated locality produces a form or variety possessing a stouter habit and larger flowers than are observed in the same species when growing only a little above the level of the sea. These forms or varieties would probably be viewed by some botanists in the light of distinct though closely allied species, and they occupy, in fact, that debatable ground the difficulties and perplexities of which the practical naturalist alone knows, and which, in the opinion of many (and I may include myself among the number), are only to be got rid of by the adoption of the views enunciated by Mr. Darwin as regards the relationship of allied forms or species by descent from a common ancestor.

From the large extent of forest-land which has been and is now being appropriated to coffee cultivation, there is little doubt that some of the indigenous plants will in time become exceedingly rare, if not altogether extirpated, or exist only in the botanical garden, into which as many kinds as possible are being introduced. The obtrusive character, too, of a plant brought to the island,

Digitized by Google

about forty years ago, is also helping to alter the character of the vegetation up to an elevation of 3000 feet. The plant alluded to is the *Lantana mixta*, Linn., which appears to have found in Ceylon a soil and climate exactly suited to its growth, for it now covers thousands of acres with its dense masses of foliage, taking complete possession of land where cultivation has been neglected or abandoned, preventing the growth of any other plants, and even destroying small trees, the tops of which its subscandent stems are able to reach. The fruit of this plant is so acceptable to frugivorous birds of all kinds, that through their instrumentality it is spreading rapidly, to the complete exclusion, in spots where it becomes established, of the indigenous vegetation.

Brucea Sumatrana, *Crotalaria incana*, *Lagascea mollis*, *Cosmos caudatus* and *Asclepias Curassavica*, have become perfectly naturalized, and are common weeds in the warmer parts of the island.

In Newera Ellia, a few exotic plants, which were introduced with grass seed, have become naturalized; those I have observed are *Cerastium vulgatum*, *Hypericum humifusum*, *Trifolium repens*, *Verbascum Thapsus*, *Stachys arvensis*, *Plantago lanceolata*, and *Dactylis glomerata*.

It now remains to express my grateful acknowledgment for assistance rendered to me during the progress of this work.

Dr. Wight, immediately on my arrival in the island, gave me his most valuable help in naming the numerous specimens I found in the herbarium, which had been collected by my predecessors, and principally by Dr. Gardner.

Sir William Hooker has most kindly assisted me with his profound knowledge of the subject in determining the names of the Ferns.

To Dr. Joseph D. Hooker I am most deeply indebted for the invaluable aid he has been unintermittingly giving me during the whole progress of this work, and without this aid I could not with any satisfaction have undertaken it.

My cordial thanks are due to Dr. Thomas Anderson for having undertaken the identification and description of the *Acanthaceæ*, an Order of plants to which he was at the time devoting particular attention, and was studying in the herbarium at Kew.

To the Rev. S. O. Glenie, F.L.S., Episcopal Colonial Chaplain at Trincomalie, and to Mr. W. Ferguson, F.L.S., Civil Engineer, I am

Digitized by Google

under great obligations for frequent valuable communications, and for specimens of plants from their respective places of residence. It gives me great pleasure, too, to record the uniform courtesy and kindness with which the gentlemen, holding the important and influential positions of Government Agents, have assisted me in carrying out the objects I had in view, when making botanical tours through their respective provinces or districts.

I would wish to associate with this little book the names of Harmanis de Alwis Modliar, and of Don Seman De Silva Aratchy, native officers, employed during many years in this establishment, the former as Draftsman, and the latter as Principal Plant-collector, to whose intelligent and hearty co-operation is due much of my success in procuring new and rare species of plants from the jungles.

Some apology may be considered necessary for the length of time that has elapsed since the present work was commenced, but a large portion of that time has been occupied in researches connected with it, and these researches have, it is hoped, tended to make it more useful and more worthy of being laid before the scientific world.

Part 1, containing 80 pages, was published in 1858.
Part 2, from p. 81 to p. 160 inclusive, was published in 1859.

Part 3,	„	161	„	240	„	„	1860.
Part 4,	„	241	„	320	„	„	1861.
Part 5,	„	321	„	483	„	„	1864.

Royal Botanic Garden, Peradenia, Ceylon,
August, 1864.

Digitized by Google

ENUMERATION OF CEYLON PLANTS.

I. RANUNCULACEÆ.

1. NARAVELIA, DC.

1. **N. Zeylanica,** DC. (H.f. et T. Fl. Ind. p. 3, cum syn.)—c.p. 1009.
HAB. Not very uncommon in the warmer parts of the island. Nom. vulg. "Wayoopaloo" or "Narawella."

2. CLEMATIS, Lin.

1. **C. smilacifolia,** Wall. (H.f. et T., l. c. p. 6, cum syn.)—c.p. 2690.
HAB. At an elevation of about 3000 feet, at Allagalla and Ambagamowa, in the Central Province.

2. **C. Gouriana,** Roxb. (H.f. et T., l. c. p. 8, cum syn.)—c.p. 680.
HAB. Newera Ellia, and other elevated parts of the Central Province.

3. THALICTRUM, Lin.

1. **T. glyphocarpum,** W. et A. (H.f. et T., l. c. p. 16, cum syn.)—c.p. 2574.
HAB. On rocks, Newera Ellia, Horton Plains, etc.

4. ANEMONE, Lin.

1. **A. rivularis,** Ham. (H.f. et T., l. c. p. 23, cum syn.)—c.p. 1011.
HAB. Newera Ellia.

5. RANUNCULUS, Lin.

1. **R. sagittifolius,** Hook. (H.f. et T., l. c. p. 30, cum syn.)—c.p. 520.
HAB. Swampy spots at Newera Ellia and Horton Plains.

2. **R. Wallichianus,** W. et A. (H.f. et T., l. c. p. 38, cum syn.)—c.p. 1012.
HAB. Very common on the more elevated parts of the Central Province, from 5000 to 8000 feet.

2, 4

Digitized by Google

II. DILLENIACEÆ.

1. DELIMA, Lin.

1. **D. sarmentosa,** Lin. (H.f. et T., l. c. p. 61, cum syn.)—C.P. 1015.
HAB. Southern parts of the island, up to an elevation of 1000 feet. Nom. vulg. "Korasawel."

2. TETRACERA, Lin.

1. **T. lævis,** Vahl, (H.f. et T., l. c. p. 62, cum syn.)—C.P. 1016.
HAB. Between Colombo and Galle; not very common.

3. ACROTREMA, Jack.

CHAR. EMEND.—*Sepala* et *petala* 5. *Stamina* indefinita, 15 vel plura; *filamentis* liberis, erectis, pluriserialibus, in 3 fasciculis cum ovariis alternantibus plus minus aggregatis; *antheris* sublinearibus, ab apice ad medium vel ultra lateraliter dehiscentibus. *Ovaria* 3, 2- vel multi-ovulata, sutura ventrali plus minus cohærentia; *stylis* subulatis, recurvatis; *stigmate* minuto. *Carpella* irregulariter dehiscentia. *Semina* membranaceo-arillata; *testa* crustacea, cancellata.—Herbæ *perennantes, subacaules;* rhizomate *sublignoso;* foliis *magnis, parallelo-penniveniis, parce glanduloso-punctatis, denticulatis;* petiolis *marginibus magnis, vaginantibus, stipularibus, denique deciduis munitis;* floribus *racemosis, flavis, expansis,* 4–8 *lin. latis;* pedicellis *plus minus elongatis;* bracteis *magnis, sæpissime bidentatis.*

Folliculis polyspermis.

† *Racemis brevi-pedunculatis.*

‡ *Foliis indivisis, obovato-oblongis.*

1. **A. uniflorum,** Hook. (Ic. Pl. t. 157; H.f. et T., Fl. Ind. p. 64); *foliis* superne glabris vel inter nervos pilis paucis rigidis munitis, subtus pallidioribus, glabris, costa nervisque dense strigosis; *pedicellis* (siccis) adpresse pilosis.
Var. *α. petiolaris* (C.P. 265); *foliis* angustioribus, crenatis vel crenato-dentatis, apice acuto rotundato vel retuso; *staminibus* 30–50.
Var. *β. rotundata* (C.P. 1014 et 3484); *foliis* rotundatis brevi-petiolatis, margine subintegro; *staminibus* circiter 30.
HAB. Not uncommon in the Central and Southern Provinces, at an elevation of from 2000 to 4000 feet, occurring, like its congeners, in damp shady places, generally on the banks of streams.

Folia 4–9 poll. longa, 1–3 poll. lata, *petiolis* (in var. *α*) 1–1¾ poll. longis.

A very variable species, both as to the size as well as the form of the leaves, and the number of their primary veins. I should not be surprised if a more critical examination of fresh specimens proved vars. *α* and *β* to be distinct species.

2. **A. bullatum,** Thw. (C.P. 239); *foliis* bullatis, utrinque (præcipue superne inter nervos et ad marginem crenato-serratum) mollissime sericeo-pubescentibus; *pedicellis* (siccis) adpresse sericeo-pilosis.
HAB. In similar places with the foregoing, and often mixed with it.

Folia 2–6 poll. longa, ¾–2 poll. lata, *petiolis* ½–¾ poll. longis.

This species is well distinguished by its bullate, softly pubescent leaves, characters better observed in fresh than in dried specimens.

3. **A. sylvaticum,** Thw. (C.P. 2659); *foliis* utrinque minute pilosis,

Digitized by Google

subtus costa nervisque pilis rigidis patentibus hirsutis, apice rotundatis, basi profunde cordatis, margine subintegro; *petiolo* brevi; *pedicellis* brevibus, patentim pilosis; *staminibus* circiter 50.

HAB. Damp forest at Eknalagodde, near Ratnapoora, March, 1853.

Rhizoma breve; *folia* membranacea, 5–8 poll. longa, 3–4 poll. lata.

4. **A. Walkeri,** Wight, MSS. (C.P. 345, 446, 694); *foliis* crenato-dentatis, subauriculatis, utrinque præcipue superne versus marginem et subtus ad costam nervosque pilosis; *pedicellis* patentim pilosis; *staminibus* circiter 15.

HAB. Not uncommon in the Central Province, at an elevation of from 2000 to 4000 feet.

Folia 2–5 poll. longa, ¾–2 poll. lata, *petiolo* ½ poll. longo; *pedicelli* elongati.

The leaves of this pretty species are frequently marked on the upper surface with a paler area occupying a more or less wide space on either side of the costa and primary veins; the same peculiarity is sometimes observed in other species.

‡‡ *Foliis indivisis, lanceolatis, subauriculatis.*

5. **A. intermedium,** Thw. (C.P. 3114); *foliis* acutis, crenato-dentatis, supra medium versus basin graduatim valde angustatis, superne ad costam marginemque et parce inter nervos hirsutis, subtus costa nervisque adpresse pilosis; *pedicellis calycibus*que patentim rigido-hirsutis; *staminibus* circiter 40.

HAB. Banks of streams in the Ambagamowa District, at no great elevation, February, 1854.

Rhizoma elongatum; *folia* 5–12 poll. longa, 1½–2¼ poll. lata, *petiolo* 1–1½ poll. longo.

6. **A. lanceolatum,** Hook. (H.f. et T. Fl. Ind. p. 65.)—C.P. 2660; *foliis* angustissime lanceolatis, acutis, sinuato-dentatis, subglabris, subtus costa nervisque adpresse brevi-hirsutis; *pedicellis* patentim parce-hirsutis; *staminibus* circiter 40.

HAB. Kittool Gulle, March, 1853. I do not know where Dr. Wight found his specimens.

Rhizoma breve; *folia* 4–12 poll. longa, ½–1¼ poll. lata, *petiolo* ½–1 poll. longo.

7. **A. Gardneri,** Thw. (C.P. 253); *foliis* anguste-lanceolatis vel subspathulatis, glabris, margine subintegro, subtus costa nervisque adpresse pilosis; *pedicellis* elongatis, adpresse-pilosis; *staminibus* circiter 15.

HAB. Common in the district between Galle and Ratnapoora, on the banks of streams.

Folia 1½–3 poll. longa, 3–7 lin. lata, *petiolo* 3–6 lin. longo.

‡‡‡ *Foliis decompositis.*

8. **A. Thwaitesii,** H.f. et T., Kew Journ. Bot. vol. 8, p. 241, t. iv. A.—C.P. 3364.—Vars. *α* and *β*.

HAB. Dolosbage District, at no great elevation, February, 1855.

9. **A. dissectum,** H.f. et T., l. c. p. 242, t. iv. B.—C.P. 3393; et var. *pinnatifida*.

HAB. Near Hellessee, in the Pas-dun Corle, at no great elevation, May, 1855.

†† *Racemis longe-pedunculatis.*

10. **A. lyratum,** H.f. l. c. p. 242.—C.P. 3392.

HAB. Near Nellowe, in the Hinidoon Corle, at an elevation of about 1000 feet, May, 1855.

Digitized by Google

4. SCHUMACHERIA, Vahl.

Sepala 5 (2 exteriora minora). *Petala* 5. *Stamina* indefinita, pluriserialia, monadelpha, unilaterali-posteriora; *filamentis* in columnam brevem obliquam semicylindricam coalitis, apicibus supremis liberis; *antheris* lineari-oblongis, obtusis, apiculatis, bilocularibus, lateraliter dehiscentibus. *Ovaria* 3 (2 anteriora), discreta, dense pilosa, uniovulata; *stylis* filiformi-subulatis; *stigmate* minuto. *Carpella* indehiscentia. *Semen* erectum, subglobosum, basi arillo parvo membranaceo munitum; *testa* crustacea.—Frutices *erecti;* ramis *rigidis, flexuosis;* foliis *coriaceis, conspicue penniveniis;* petiolo *basi latiuscula, vaginante.* Spicis *axillaribus vel terminalibus;* floribus *sessilibus, secundis, bibracteolatis, flavis, expans.* 6–9 *lin. latis.*

Note.—The generic characters of this and the foregoing genus have been principally copied from the 'Flora Indica' of Drs. Hooker and Thomson, such additions or slight alterations only having been made as the examination of fresh and more abundant specimens of the several species afforded the favourable opportunity of doing.

1. **S. castaneæfolia,** Vahl, (H.f. et T., l. c. p. 66, cum syn.)—C.P. 232, 248.

HAB. Common in the Saffragam and Galle Districts, at no great elevation. Nom. vulg. "Kakareewara."

2. **S. angustifolia,** H.f. et T., l. c. p. 66.—C.P. 2992.

HAB. Abundant in the Hinidoon Corle.

Not so straggling in its growth as the preceding species, and with a good deal smaller flowers.

3. **S. alnifolia,** H.f. et T., l. c. p. 66.

Var. α. *scabra;* foliis hirsutie rigida pauca scabris.—C.P. 9.

Var. β. *dentata* (Wight, MSS.); foliis grosse et acute dentatis, subtus petiolisque hirsutis.—C.P. 339.

Var. γ. *subglabra;* foliis subtus subglabris.—C.P. 397, 2416.

HAB. Vars. α and β, in forests in the Ambagamowa District. Var. β, which has sharply-dentate leaves, and these more hirsute beneath and with coarser reticulation, owes its peculiarity, I believe, to growing in a more damp and shady locality. Var. γ occurs in forests in the Hunasgiria District.

5. WORMIA, Rottb.

1. **W. triquetra,** Rottb. (H.f. et T., l. c. p. 67, cum syn.)—C.P. 1013.

HAB. Common in the moist, warmer parts of the island, up to an elevation of 2000 feet. Nom. vulg. "Deeyapara."

Arbor mediocris; foliorum *petiolis* canaliculatis, stipulari-marginatis (marginibus vaginantibus, cito deciduis), basi externe appendicula carnosa prominente hippocrepiformi semicinctis; *floribus* secundis; *sepalis* post anthesin parce accrescentibus, imprimis arcte imbricato-convergentibus, denique fructu maturo apertis vel reflexis; *petalis* plicato-rugosis, albis, basi pallide viridescentibus, caducis; *staminibus* erectis, luteis, circiter 3-serialibus, subæquilongis, persistentibus; *ovariis* 5, circiter 8-ovulatis; *ovulis* biserialibus; *carpellis* indehiscentibus, 1–2-spermis; *seminibus* arillatis, in pulpa pellucida gelatinosa nidulantibus.

The carpels of this, the original species of the genus, being indehiscent, it would seem doubtful whether some of the other species now included in the genus should be retained in it, or Blume's genus *Capellia* be restored for their reception.

Digitized by Google

6. DILLENIA, Lin.

1. **D. speciosa,** Thunb. (H.f. et T., l. c. p. 69, cum syn.)—C.P. 2961.

HAB. Common in the warmer parts of the island, up to an elevation of 2000 feet; most frequent on the banks of streams. Nom. vulg. "Hondapara."

Sect. COLBERTIA, *Salisb.*

2. **D. retusa,** Thunb. (*Wormia retusa,* H.f. et T., l. c. p. 68, cum syn.)—C.P. 2960.

HAB. In similar situations with the preceding species, but by no means so abundant. Nom. vulg. "Godapara."

Arbor mediocris; *petalis* albis; *staminibus* numerosis, 5–6-serialibus (externis graduatim brevioribus), pallide sanguineis; *antherarum* loculis lateralibus, albis; *ovariis* 5, 30–35-ovulatis; *stylis* filiformi-subulatis, recurvatis; *ovulis* 4-serialibus; *fructu maturo* pendulo, croceo, $1\frac{1}{4}$–$1\frac{1}{2}$ poll. diam.; *carpellis* indehiscentibus, calyce valde aucto carnoso arcte inclusis; *seminibus* exarillatis, in pulpa pellucida gelatinosa nidulantibus.

There can be no doubt that this handsome species belongs to the *Colbertia* section of *Dillenia,* though it seems to differ from the others in having white instead of yellow petals. There is an indication of the stamens being collected into five groups alternating with the carpels.

† 3. **D. integra,** Thunb. (*Wormia integra,* H.f. et T., l. c. p. 68, cum syn.)

I know nothing of this plant, and suspect there must be some error in a fourth species of these large Dilleniaceous trees being attributed to Ceylon.

III. MAGNOLIACEÆ.

1. MICHELIA, Lin.

1. **M. Nilagirica,** Zenk. (H.f. et T., l. c. p. 82, cum syn.)

Var. *a. ovalifolia,* Wight; petalis cum sep. sæpissime 9.—C.P. 141, 424.

Var. *β. Walkeri,* H.f. et T. (*M. Walkeri* and *M. glauca,* Wight); petalis cum sepalis sæpissime 12.—C.P. 2636 and 576, 299, 338, 423, 617.

HAB. Central Province, at an elevation of 3000 to 8000 feet. Nom. vulg. "Walsappoo."

In Ceylon the most typical form of this plant is that called *M. Walkeri* by Dr. Wight, having lanceolate leaves more or less glaucous on the under surface, and most commonly twelve petals. Between this and the oval-leaved form a gradual transition may apparently be observed, and, although the latter has most commonly nine petals, and these wider, yet, like the authors of the 'Flora Indica,' I have been quite unable to discover any permanent characters on which two separate, clearly-defined species can be founded. The form occurring on the Neilgherries, as shown in a specimen sent to me by Dr. Hooker, differs from any I have seen growing in Ceylon in its larger leaves and much larger petals.

M. Champaca, L., is very common in cultivated ground, but I have never seen it undoubtedly wild in the forests.

IV. SCHIZANDRACEÆ.

1. KADSURA, Juss.

1. **K. Wightiana,** Arn. (H.f. et T., l. c. p. 84, cum syn.)—C.P. 1028.

Digitized by Google

HAB. Central Province, at an elevation of 1500 to 4000 feet.

*Ramulis foliis*que junioribus rufescentibus; *pedunculis* sæpe petiolos multo superantibus; *floribus* pallide viridi-ochraceis; *ovariis* 3–5, sæpissime 4-ovulatis; *toro* conico.

V. ANONACEÆ.

1. SAGERÆA, Dalzell.

1. **Thwaitesii,** H.f. et T., l. c. p. 93.—C.P. 2702.
HAB. Ambagamowa and Saffragam Districts, at an elevation of about 1000 feet, February, 1853.

Flores pallide crocei. *Antheræ* rufescentes. *Carpella* subsessilia, nucis Avellanæ magnitudine vel minora, pluri- vel pauci-sperma. *Semina* compressa, sulco circumcincta.

2. UVARIA, Lin.

1. **U. semecarpifolia,** H.f. et T., l. c. p. 97.—C.P. 244.
HAB. Central and south-eastern parts of the island, at an elevation of 1000–3000 feet.

Flores fulvo-viridescentes. *Sepala* interiora convergentia.

2. **U. macrophylla,** Roxb. (H.f. et T., Fl. Ind. l. c. 97, cum syn.)—C.P. 3527.
HAB. South-east of the island, not uncommon.

The fruit is eaten by the Cinghalese, and was described to me as nearly black when ripe, with the interior red. The unripe fruit in the Ceylon specimen is sparingly tomentose.

3. **U. sphenocarpa,** H.f. et T., l. c. p. 99.—C.P. 1045.
HAB. Central and eastern parts of the island, up to an elevation of 1500 feet.

Flores fulvo-viridescentes. *Ovaria* elongata, prismatica, dimidio inferiore circiter 10 *ovula* biserialia includentia. *Stigmata* subplana, lateribus involutis.

4. **U. macropoda,** H.f. et T., l. c. p. 101.—C.P. 2544.
HAB. Similar localities with the foregoing.

Flores rubiginosi. *Carpella* matura sanguineo-coccinea. *Semina* compressa, lævia, albida, oblonga, 5 lin. longa.

5. **U. Narum,** Wall. (H.f. et T., l. c. p. 102, cum syn.)—C.P. 1032.
HAB. Common in the Central Province, up to an elevation of 4000 feet.

Flores rubiginosi, plus minus viridescentes, vel sæpe virides. *Carpella* ovalia, lævia, nitida, coccinea.

6. **U. Zeylanica,** Lin. (H.f. et T., l. c. p. 102, cum syn.)—C.P. 1030, 1031.
HAB. Southern parts of the island, at no great elevation.

3. GONIOTHALAMUS, Blume.

Sect. 1.—*Sepalis persistentibus; stylis subulatis, indivisis.*

1. **G. Hookeri,** Thw. (C.P. 3399); *foliis* magnis, ovato-oblongis, breviter et obtuse acuminatis, basi parce angustatis, lævibus; *pedunculis* petiolos æquantibus, solitariis axillaribus et fasciculatis, caulinis.
HAB. Hinidoon and Reigam Corles, at an elevation of about 1000 feet, April, 1855.

Digitized by Google

Arbor mediocris, circiter 30-pedalis. *Folia* 6–13 poll. longa, $2\frac{1}{2}$–$4\frac{1}{2}$ poll. lata; *petiolo* $\frac{1}{2}$–$\frac{3}{4}$ poll. longo. *Flores* pallide virides, parcissime rufo-hirsuti. *Sepala* rotundato-acuta, $\frac{3}{4}$ poll. longa. *Petala exteriora* circiter 2 poll. longa, $\frac{3}{4}$ poll. lata, basi rotundata, supra medium parce contracta; *interiora* in mitram pyramidalem, intus tomentosam, circiter $\frac{3}{4}$ poll. altam coalita. *Carpella* numerosa, fabæ minoris magnitudine, brevissime pedicellata. *Semina* nitida; *testa* brunnea.

2. **G. Thwaitesii,** H.f. et T., l. c. p. 106.—C.P. 1040.

HAB. Not uncommon in the Central Province, at an elevation of 2000 to 4000 feet. Nom. vulg. "Caloocaara."

Arbor mediocris. *Flores* virides.

3. **G. Gardneri,** H.f. et T., l. c. p. 107.—C.P. 1029.

HAB. In similar localities with the preceding, not uncommon.

Frutex erectus, 8–10-pedalis. *Flores* virides, flavescentes. *Carpella* brevi-pedicellata, sæpissime 2-sperma, subpollicaria, oblonga.

Sect. 2.—*Sepalis persistentibus; stylo in segmentis 2 longis filiformibus diviso.*

4. **G. Thomsoni,** Thw. (C.P. 3398); *foliis* obovatis, longe et abrupte acuminatis, supra medium ad *petiolum* brevem graduatim angustatis; *pedunculis* caulinis, solitariis vel binis.

HAB. Forests in the district between Galle and Ratnapoora, April, 1855.

Frutex erectus, $1\frac{1}{2}$–3-pedalis. *Folia* flavescentia, 5–12 poll. longa, $1\frac{1}{2}$–3 poll. lata; *acumine* $\frac{3}{4}$–$1\frac{1}{2}$ poll.; *petiolo* circiter $\frac{1}{2}$ poll. longo. *Pedunculi* $\frac{3}{4}$ poll. longi, adscendentes, prope apicem decurvati. *Flores* ochracei. *Sepala* lanceolata, $\frac{1}{4}$ poll. longa. *Petala exteriora* lanceolata, apicem versus valde angustata, basi rotundata, $1\frac{1}{2}$ poll. longa; *interiora* in mitram ovalem acutam 6 lin. altam coalita. *Ovaria* elongata, *stylis* æquilonga. *Carpella* monosperma, ovalia, apiculata, $\frac{1}{2}$ poll. longa; *pedicello* 2 lin. longo.

A very distinct species, remarkable for the small size of the plant, its cauline flowers often close to the ground, and its deeply bisected styles.

Sect. 3.—*Sepalis deciduis. Stylo cylindrico vel clavato; stigmate dilatato, bilobo.*

5. **G. salicinus,** H.f. et T., l. c. p. 106.—C.P. 373.

HAB. Forests in the neighbourhood of "Adam's Peak," at an elevation of 2000 to 3000 feet.

Frutex erectus, 10–12-pedalis. *Flores* ochraceo-rufescentes vel fuscescentes.

6. **G. reticulatus,** Thw. (C.P. 3397); *foliis* lanceolatis vel lineari-lanceolatis, plus minus abrupte acuminatis, basi subrotundatis, subtus conspicue reticulatis.

HAB. Carawitta Kanda and other forests between Galle and Ratnapoora.

Frutex erectus, 6–8-pedalis. *Ramuli* nigricantes, juniores strigosi. *Folia* membranacea, densissime glanduloso-punctata, subtus sparse rufro-nigro-pilosa, 6–11 poll. longa, 1–$2\frac{1}{4}$ poll. lata. *Petioli* nigricantes, subtumidi, 2–3 lin. longi, superne sulcati, alati (lamina decurrente), subtus cum costa minute tuberculati. *Pedunculi* uniflori, paullo supra-axillares, decurvati, $\frac{1}{4}$ poll. longi, basi bracteati. *Styli* clavati, *ovariis* oblongis dense rufo-strigosis dimidio longiores. *Carpella* globose 1-sperma, oblonge 2-sperma, rubiginosa; *pedicello* $\frac{1}{4}$ lin. longo.

Closely allied to *G. salicinus*, but differing in its very much larger and differently-shaped leaves. I have not seen the sepals and petals of *G. reticulatus*, as they had fallen when the specimens were gathered.

Digitized by Google

7. **G. Walkeri,** H.f. et T., l. c. p. 109.

I have never been so fortunate as to meet with this species, so can add nothing to the description given of it by the authors of the 'Flora Indica.' Nor can I tell, without an examination of specimens, to which section of this genus it is to be referred.*

4. OROPHEA, Blume.

1. **O. Zeylanica,** H.f. et T., l. c. p. 111.—C.P. 2406.

HAB. Central Province, at an elevation of 2000 to 3000 feet.

Flores virides, fuscescentes.

2. **O. coriacea,** Thw. (C.P. 2612); *foliis* valde coriaceis, ovato-lanceolatis, subacutis, basi rotundatis, brevi-petiolatis; *pedunculis* unifloris; *staminibus* 9 (6 exterioribus 3 interioribus), *ovarium* solitarium oblongum 2-ovulatum cingentibus.

HAB. Dimboola and Raxawa, in the Central Province, at an elevation of about 3000 feet, April, 1852.

Arbor mediocris. *Ramuli* rigidi, nigricantes. *Folia* intense viridia, 2–5 poll. longa, 1–2¼ poll. lata, costa prominenti, nervis inconspicuis. *Petioli* vix 2 lin. longi. *Pedunculi* circiter ¼ poll. longi, basin versus 3–4 bracteis parvis strigosis muniti. *Flores* parvi, 4 lin. in exp. *Sepala* minuta, deltoidea, ciliata. *Petala exteriora* rotundata, obscure acuminata, externe purpurea, interne ochraceo-rufescentia; *interiora* purpurea, in mitram obtusam 1½ lin. altam coalita. *Ovula* superposita. *Carpella* subsessilia, subglobosa, obliqua, 1–2-sperma.

3. **O.? obliqua,** H.f. et T., l. c. p. 112.—C.P. 2703; *floribus* terminalibus caulinisque fasciculatis; *staminibus* 6, seriebus duabus, *ovaria* 3, 2-ovulata, *stigmate* depresso coronata, cingentibus; *toro* plano; *carpellis* sessilibus, globosis, 1–2-spermis.

HAB. In the Galle and Ratnapoora Districts, at no great elevation.

Arbor mediocris. *Flores* purpurei, parvi. *Sepala* minuta, ciliata. *Petala* 6, subæqualia, carnosa, *exteriora* aperta, *interiora* convergentia, imbricata v. subvalvata. *Carpella* semipollicaria, rufescentia.

This somewhat departs from the character of *Orophea* in the sepals and petals being frequently (not always) imbricated, as in *Sageræa,* but it is too closely allied to the previous species to be separated generically from it. It would seem to point out, however, that *Sageræa* and *Orophea* should be arranged in juxtaposition.

5. MITREPHORA, Blume.

1. **M. Heyneana,** (*Orophea Heyneana,* H.f. et T., l. c. p. 110, cum syn.)—C.P. 1033.

HAB. Haragam and other places on the Lower Badulla Road from Kandy, up to an elevation of 1500 feet.

Arbor mediocris. *Pedunculi* 1–3-flori. *Petala* lutea, *interiora* rubro-maculata.

The authors of the 'Flora Indica' must have had imperfect specimens of the flower of this plant for examination, for in all that I have dissected I have found the stamens far more numerous than they have described. Is the Courtalam plant distinct from the Ceylon one?†

---

* The sepals appear to be persistent, but the specimens being in fruit only, I cannot determine whether it should be referred to section 1 or 2.—*J. D. H.*

† We have no flowering specimens of the Ceylon plant.—*J. D. H.*

Digitized by Google

6. XYLOPIA, Lin.

1. **X. parvifolia,** H.f. et T., l. c. p. 125.—C.P. 3335.
HAB. Southern parts of the island, at no great elevation. Nom. vulg. "Nattou."

Arbor. Flores ochracei. *Carpella* columbæ ovi magnitudine vel minora, oblonga. *Semina* biserialia, oblonga, in pulpa carnosa rufa nidulantia.
The flowers and bark of this tree are used by the Cinghalese for chewing with their betel.

2. **X. nigricans,** H.f. et T., l. c. p. 125.—C.P. 615.
HAB. This grows in the Botanic Garden, and I have not met with it elsewhere, though it probably occurs in the southern parts of the island where the other two species are found.

Arbor mediocris. *Flores* ochracei. *Carpella* ut in præcedente. *Semina* fusco-nigra, lævia, hilum versus attenuata, 4 lin. longa, biserialia.

3. **X. Championii,** H.f. et T., l.c. p. 126.—C.P. 1038.
HAB. Ambagamowa and Ratnapoora Districts, up to an elevation of 2000 feet. Nom. vulg. "Datkateya."

Flores ochracei, plus minus rubro tincti. *Carpella* pedicellata, longitudinaliter 5-costata. *Semina* uniserialia, in pulpa nidulantia.

7. CYATHOCALYX, Champion.

1. **C. Zeylanicus,** Champ. (H.f. et T., l. c. p. 127.)—C.P. 1044.
HAB. Central and Southern Provinces, at an elevation of 1500 to 3000 feet. Nom. vulg. "Kakala."

Ovarium solitarium, uni calycis dentium oppositum. *Carpella* subglobosa, plurisperma, 2½ poll. longa, drupacea. *Semina* compressa, 1 poll. longa, lateribus transverse rugosa; *testa* ossea, rufo-fusca.

8. ARTABOTRYS, R. Br.

1. **A. odoratissimus,** R. Br. (H.f. et T., l.c. p. 128, cum syn.)—C.P. 1042.
HAB. Northern parts of the island, *Gardner*.

2. **A. Zeylanicus,** H.f. et T., l. c. p. 128.—C.P. 1043.
HAB. Central and southern parts of the island, at an elevation of 3000 to 4000 feet.

9. UNONA, Lin.

1. **U. Zeylanica,** H.f. et T., p. 132.—C.P. 1037.
HAB. Central Province, at an elevation of 1500 to 3000 feet.

Frutex erectus, 3–6-pedalis. *Pedunculi* sæpe caulini. *Flores* viridi-ochracei, intus basi rufescentes. *Carpella* rufescentia. *Semina* ovalia, lævia, 4 lin. longa.

2. **U. discolor,** Vahl, (H.f. et T., l. c. p. 132, cum syn.)
I have never met with this species wild in the island, nor are there any specimens of it in this Herbarium but from cultivated plants.

10. POLYALTHIA, Blume.

1. **P. Moonii,** Thw. (C.P. 437); *foliis* lanceolatis, basin versus rotun-

Digitized by Google

datam obliquam angustatis, brevi-petiolatis; *pedunculis* longis, unifloris, caulinis et oppositifoliis; *petalis* carnosis, conchoideis; *carpellis* pedicellatis, 1–2-spermis; *seminibus* oblongis, lævibus, sulco circumcinctis.

HAB. Caltura, *Moon.* Reigam Corle, September, 1856.

Frutex 8–10-pedalis, *partibus novellis* fulvo-strigosis. *Ramuli* rigidi, cortice fusco, rugoso, albo-maculato. *Folia* 3–6 poll. longa, ¾–2 poll. lata. *Petioli* circiter 1 lin. longi, transverse rugulosi. *Pedunculi* 1–1½ poll. longi, basi bracteis 3 parvis lanceolatis muniti, fulvo-strigosi. *Flores* rubri, 4 lin. lati, externe sparse pilosi. *Sepala* lata, acuminata, 1 lin. longa. *Petala exteriora* rotunda, acuminata, *interioribus* obtusis minora. *Stamina* numerosa, cuneata, arcte compacta. *Ovaria* numerosa, oblonga, pilosa, *stylo* hirsuto clavato dimidio longiora. *Carpella* rufescentia, globose 1-sperma vel oblonge 2-sperma, 2–4 lin. longa, *pedicello* circiter 2 lin. longo suffulta.

This is probably the species referred to at the bottom of page 137 of the 'Flora Indica.'

11. GUATTERIA, Ruiz et Pavon.

1. **G. longifolia,** Wall. (H.f. et T., l. c. p. 139, cum syn.)—C.P. 1041.

HAB. Northern parts of the island, at no great elevation.

2. **G. suberosa,** Dun. (H.f. et T., l. c. p. 140, cum syn.)—C.P. 1035.

HAB. Near Caltura and Colombo.

3. **G. Corinti,** Dun. (H.f. et T., l. c. p. 141, cum syn.)—C.P. 1034.

HAB. Very common in the warmer parts of the island, ascending to an elevation of 1500 feet.

4. **G. coffeoides,** H.f. et T., l. c. p. 141.—C.P. 2503.

HAB. Haragam and other places on the Lower Badulla Road from Kandy, up to an elevation of 1500 feet.

Flores flavo-virides. *Carpella* nigro-purpurea. *Semina* oblonga, 7 lin. longa, 5 lin. lata, lævia, fusca, sulco undulato circumcincta.

5. **G. persicæfolia,** H.f. et T., l. c. p. 140.

This species, found by Captain Champion near Galle, I have never been so fortunate as to meet with. It would appear, from the description in 'Flora Indica,' to bear considerable resemblance to *Polyalthia Moonii.*

12. ANAXAGOREA, St. Hilaire.

1. **A. Zeylanica,** H.f. et T., l. c. p. 144.

I have not yet met with this species, nor are there any specimens of it in this Herbarium; so I can add nothing to the description given of it in 'Flora Indica.'

13. MILIUSA, Lesch.

1. **M. montana,** Gardn. MSS. (H.f. et T., l. c. p. 148.)

Vars. *a* and *β* (C.P. 194); *ramulis foliis*que junioribus parce strigosis.

Var. *γ. tomentosa* (C.P. 1036); *ramulis foliis*que subtus plus minus tomentosis.

HAB. Central Province, at an elevation of 1500 to 3000 feet.

The extreme forms of the above varieties look very distinct, but they pass into each other by such insensible gradations, that it is quite impossible to separate them by well-defined characters. The small *exterior petals* vary from being subequal to nearly three times the length of the sepals; the carpels, too, are either subsessile or on pedicels nearly two lines in length. The leaves are occasionally subrotund and cordate at the base.

Digitized by Google

2. **M. Zeylanica,** Gardner, MSS. (H.f. et T., l. c. p. 149.)—C.P. 2678.
HAB. South of the island, at no great elevation.

Carpella subsessilia, glabra, minute granulata.

Closely allied to the preceding, but distinguished by its larger and more acute leaves, shorter peduncles, and narrower petals.

14. ALPHONSEA, H.f. et T.

1. **A. Zeylanica,** H.f. et T., l. c. p. 153.—C.P. 1039.
HAB. Central Province, at an elevation of 3000 to 4000 feet.

Flores viridi-ochracei. *Carpella* breviter fulvo-tomentosa, dura, lignosa.

2. **A. sclerocarpa,** Thw. (C.P. 2727); *foliis* lanceolatis, obtusis, basi angustatis, coriaceis, reticulatis, glaberrimis, superne nitidis, subtus opacis, pallidioribus; *fasciculis* multifloris; *carpellis* subosseis, grosse verrucosis, brevi-pedicellatis.
HAB. Haragam, etc., on the Lower Badulla Road from Kandy, up to an elevation of 1500 feet.

Arbor. *Ramuli* cinerei, rugosi; *gemmæ* fulvo-pilosæ. *Folia* 2–3½ poll. longa, ¾–1 poll. lata, *petiolo* 2-lin. longo. *Pedunculi* vix ½ lin. longi, extra-alares. *Pedicelli* ½ poll. longi, medio 1-bracteati, fusco-pilosi. *Sepala* minuta. *Petala* ¼ poll. longa, pallide ochracea, externe pilosa. *Stamina* 15, 2–3-serialia. *Ovaria* 3–5, *stylo* depresso. *Ovula* circiter 8. *Carpella* 3–5, stellatim disposita, 1–2 poll. longa, subglobosa, breviter fulvo-tomentosa, *pedicello* robusto, ¼ poll. longo. *Semina* biserialia.

VI. MYRISTICACEÆ.

1. MYRISTICA, Lin.

1. **M. Irya,** Gærtn. (H.f. et T., Fl. Ind. p. 159, cum syn.; Alph. DC. Prod. xiv., p. 202.)—C.P. 2620.
HAB. Not uncommon in damp places, up to an elevation of 2000 feet. Nom. vulg. "Eereya-gass."

2. **M. Zeylanica,** Alph. DC. Ann. Sc. Nat. ser. 4, vol. iv., p. 29; Prod. xiv., p. 190.—C.P. 2923.
HAB. Banks of rivers, at no great elevation. Nom. vulg. "Mala-bodde."

3. **M. laurifolia,** H.f. et T., l. c. p. 163; Alph. DC. Prod. xiv., p. 191. —*M. diospyrifolia,* Alph. DC., l. c.—C.P. 416.
HAB. Central Province, in the forests, at an elevation of 1500 to 4000 feet. Nom. vulg. "Malabodde."

4. **M. Horsfieldii,** Bl. (H.f. et T., l. c. p. 163, cum syn.; Alph. DC. Prod. xiv., p. 200.)—C.P. 221.
HAB. Abundant in the Ambagamowa and Ratnapoora districts, up to an elevation of 1000 feet. Nom. vulg. "Rook-gass."

The very fragrant male flowers are used by the natives as a perfume for scenting their clothes.

VII. MONIMIACEÆ.

1. HORTONIA, Wight.

1. **H. floribunda,** Wight, (H.f. et T., l. c. p. 166.)

Digitized by Google

Var. *a. acuminata,* H.f. et T., l. c. (*Hort. floribunda* and *H. acuminata,* Wight, Ic.)—C.P. 1027.

Var. *β. ovalifolia* (*Hort. ovalifolia,* Wight, Ic.)—C.P. 159, 161, 175.

Var. *γ. angustifolia;* foliis lineari-lanceolatis; floribus multo minoribus quam in varr. *a* et *β*.—C.P. 1026.

HAB. Vars. *a* and *β*. Central Province, at an elevation of 4000–7000 feet. Var. *γ*. In the neighbourhood of Galle, at no great elevation. Nom. vulg. "Waaweya."

Flores pallide viridi-flavi. *Drupæ* carnosæ, pulposæ, rubro-nigricantes.

Between varieties *a* and *β* of this species there are intermediate forms, by which they pass insensibly into one another, and they both occur at considerable elevations on the hills of the Central Province. Variety *γ*, however, may be considered a permanent or sub-permanent one, as it is a much more delicate plant, with far smaller flowers, and occurs at no great elevation above the level of the sea. I shall have occasion to notice, in this "Enumeration," similar varieties of several other species.

VIII. MENISPERMACEÆ.

1. COSCINIUM, Colebr.

1. **C. fenestratum,** Colebr. (H.f. et T., l. c. p. 178, cum syn.)—C.P. 1055.

HAB. Central and Southern Provinces, up to an elevation of 1500 feet. Nom. vulg. "Weniwel."

An infusion of the wood of this plant is employed by the Cinghalese as a bitter tonic.

2. TINOSPORA, Miers.

1. **T. tomentosa,** Miers, (H.f. et T., l. c. p. 183, cum syn.)—C.P. 2804.

HAB. On the Lower Badulla Road from Kandy, at no great elevation. Nom. vulg. "Bookinda."

2. **T. cordifolia,** Miers, (H.f. et T., l. c. p. 184, cum syn.)—C.P. 1053.

HAB. Warm, drier parts of the island, at no great elevation. Nom. vulg. "Rassakinda."

An infusion of the young stems of this plant is used as a remedy in fevers.

3. ANAMIRTA, Colebr.

1. **A. Cocculus,** W. et A. (H.f. et T., l. c. p. 185, cum syn.)—C.P. 2722.

HAB. Warmer parts of the island, up to an elevation of 1500 feet. Nom. vulg. "Tetti-wel."

4. TILIACORA, Colebr.

1. **T. acuminata,** Miers, (H.f. et T., l. c. p. 187, cum syn.)—C.P. 1056.

HAB. North-eastern parts of the island, at no great elevation. Gardner.

5. LIMACIA, Lour.

1. **L. cuspidata,** H.f. et T., l. c. p. 189.—C.P. 1051.

Digitized by Google

HAB. Common up to an elevation of 4000 feet. Nom. vulg. "Nirriwel."

6. COCCULUS, DC.

1. **C. macrocarpus,** W. et A. (H.f. et T., l. c. p. 191, cum syn.)—C.P. 1052.

HAB. Central Province, not uncommon.

7. STEPHANIA, Lour.

1. **S. hernandifolia,** Walpers, (H.f. et T., l. c. p. 196, cum syn.)—C.P. 2757.

HAB. Common in the Central Province.

8. CISSAMPELOS, Lin.

1. **C. Pareira,** Lin. (H.f. et T., l. c. p. 198, cum syn.)—C.P. 169.

HAB. Very common throughout the island. Nom. vulg. "Deyamitta."

2. **C. subpeltata,** Thw. (C.P. 168); *foliis* cordatis vel rotundato-acutis obtusatisve, subpeltatis, apiculatis, superne parce pilosis, subtus cinereis, subtomentosis; FŒM. *bracteis* parvis, oblongis oblatisve, utrinque hirsutissimis, apiculo subæquilongo; *drupis* oblongis.

HAB. Ambagamowa and Ratnapoora Districts, at no great elevation.

Ramuli striati, parce pubescentes. *Folia* 2–3 poll. longa et æquilata. *Petioli* 1½–2½ poll. longi, striati, pubescentes, prope marginem folii affixi. *Paniculæ* plus minus elongatæ, subtomentosæ. *Drupæ* 2 lin. longæ, 1½ lin. latæ.

This seems to be a very distinct species, the female inflorescence wanting the large foliaceous bracts so characteristic of *C. Pareira.* The drupes of *C. subpeltata* are also much larger than those of its congener.

9. CYCLEA, Arn.

1. **C. Burmanni,** Miers, (H.f. et T., l. c. p. 201, cum syn.)—C.P. 1049.

HAB. Very abundant throughout the island. Nom. vulg. "Caahepittang."

2. **C. peltata,** H.f. et T., p. 201, cum syn.

I know nothing of this plant, never having collected any specimens of the genus but what seemed to be all referable to one species.

10. PACHYGONE, Miers.

1. **P. ovata,** Miers, (H.f. et T., l. c. p. 203, cum syn.)—C.P. 1050, 1054.

HAB. Dry, hotter parts of the island, not uncommon.

IX. BERBERIDEÆ.

1. BERBERIS, Lin.

1. **B. aristata,** DC. (H.f. et T., l. c. p. 222, cum syn.)—C.P. 2405.

HAB. Newera Ellia, and other elevated parts of the island, abundant.

Digitized by Google

X. NYMPHÆACEÆ.

1. NYMPHÆA, Lin.

1. **N. Lotus,** Lin. (H.f. et T., l. c. p. 241, cum syn.)
Var. *a. Lotus* (C.P. 1020).
Var. *β. pubescens* (C.P. 1019).
HAB. Not uncommon in the lower parts of the island.

2. **N. stellata,** Willd. (H.f. et T., l. c. p. 243, cum syn.)—C.P. 1021.
HAB. Common in the warmer parts of the island.
I have never seen any but the pale, whitish variety in Ceylon.

XI. NELUMBIACEÆ.

1. NELUMBIUM, Juss.

1. **N. speciosum,** Willd. (H.f. et T., l. c. p. 248, cum syn.)—C.P. 1022.
HAB. Colombo, and elsewhere in the island.

XII. CRUCIFERÆ.

1. CARDAMINE, Lin.

1. **C. hirsuta,** Lin.—C.P. 2962.
Var. *major;* sæpissime trifoliolata.—C.P. 1017.
HAB. Not uncommon in the more elevated parts of the island, above 4000 feet. The trifoliolate variety occurs in shady woods.

XIII. CAPPARIDACEÆ.

1. GYNANDROPSIS, DC.

1. **G. pentaphylla,** DC. Prod. i. 238, cum syn.—C.P. 2640.
HAB. Common in cultivated ground. Nom. vulg. "Waila."

2. CLEOME, DC.

1. **C. monophylla,** Lin. (DC. Prod. i. 239.)—C.P. 2792.
HAB. Cultivated ground, common. The flowers are of a dull-purple colour.

2. **C. aspera,** Kœnig, (DC. Prod. i. 241.)—C.P. 1068.
HAB. Dry sandy ground, common.

3. POLANISIA, Rafin.

1. **P. viscosa, β. icosandra,** DC. Prod. i. 242.—C.P. 1073.
HAB. Very common in cultivated ground.

4. CRATÆVA, Lin.

1. **C. Roxburghii,** R. Br. (W. et A., Prod. i. 23.)—C.P. 1067.

Digitized by Google

HAB. North-eastern parts of the island, at no great elevation. Nom. vulg. "Loonoowarana."

5. CADABA, Försk.

1. **C. trifoliata,** W. et A. Prod. i. 24.—C.P. 1066.
HAB. Northern part of the island, *Gardner.*

2. **C. Indica,** Lam. (W. et A. Prod. i. 24.)—C.P. 1070.
HAB. Northern part of the island, *Gardner.*

6. MÆRUA, Försk.

1. **M. oblongifolia,** A. Rich. Tent. Fl. Abyss. i. 32, t. 5.—*Niebuhria oblongifolia,* DC. Prod. i. 244; Hook. Ic. ii. t. 128.—C.P. 1064.
HAB. Trincomalee, *Gardner.*

7. CAPPARIS, Lin.

Sect. 1.

1. **C. brevispina,** DC. Prod. i. 246, (W. et A. Prod. i. 24, cum syn.)
Var. *α. brevispina* (*C. brevispina,* DC.)—C.P. 1062 and 2509.
Var. *β. Rheedii* (*C. Rheedii,* DC.)—C.P. 1060.
Var. *γ. rotundifolia* (*C. rotundifolia,* Rottb.; Willd.)—C.P. 1059.
HAB. Very abundant in the hot, dry northern parts of the island.

May not one of the forms of this species be the *C. Zeylanica* of Linnæus?

2. **C. stylosa,** DC. Prod. i. 246, (W. et A. Prod. i. 25, cum syn.)—C.P. 1072.
HAB. North of the island, *Gardner.*

Sect. 2.

3. **C. horrida,** Lin. (W. et A. Prod. i. 26, cum syn.)—C.P. 1058.
HAB. Hot, drier parts of the island, up to an elevation of 1500 feet.

4. **C. tetrasperma,** Thw. (C.P. 614); *stipulis* spinosis, brevibus, uncinatis; *foliis* ovatis, acuminatis, glabris; *junioribus* parce pubescentibus; *sepalis* glabris, margine lanatis; *petalis* interne glabris, externe lanuginosis.
HAB. Lower Badulla Road from Kandy, up to an elevation of 1500 feet.

Frutex scandens. *Ramuli* teretes, minute striati, glabri. *Folia* $1\frac{3}{4}$–$2\frac{1}{2}$ poll. longa, $\frac{3}{4}$–$1\frac{1}{4}$ poll. lata, *petiolo* $\frac{1}{4}$ poll. longo. *Pedicelli* supra-axillares, sæpissime 3, 1-seriales, 6 lin. longi. *Petala* oblonga, 2 lin. longa, *sepala* ovalia acuta parum excedentia. *Stamina* circiter 20. *Ovarium* oblongum, attenuatum; *gynophoro* pedicellum subæquante; *placentis* 2, 2–3-ovulatis. *Ovula* brevi-stipitata. *Nuculania* globosa, 4 lin. in diam., sæpissime 4-sperma.

This is probably the *C. Zeylanica* of De Candolle, but can scarcely be the plant so called by Linnæus, the leaves of which are described as "subpetiolata;" nor can it well be the *C. acuminata,* Willd. (*C. Zeylanica,* W. et A.), which is stated to have the leaves tomentose beneath, and the spiny stipules straight.

Sect. 3.

5. **C. Roxburghii,** DC. Prod. i. 247; W. et A. Prod. i. 26; R. W. Ic. t. 1048.—C.P. 1065, 2480.

Digitized by Google

Hab. Hot, drier parts of the island, at no great elevation.

Petala albida. *Ovarium* oblongum, attenuatum; *placentis* 5, pluriovulatis. *Ovula* subsessilia. *Nuculania* globosa. *Semina* numerosa.

6. **C. Moonii**, R. W. Illust. i. p. 35.—c.p. 2415.

Hab. Central Province, up to an elevation of 3000 feet.

Frutex scandens, maximus, glaberrimus; *stipulis* spinosis, uncinatis. *Folia* 4–6 poll. longa, 1¾–2¼ lata, oblonga, acuminata, acumine reflexo, basi rotundata, *petiolo* circiter ½ poll. longo. *Petala* alba, parce pilosa, *sepalis* rotundatis circiter 1 poll. longis bis longiora. *Stamina* numerosa, filamentis albis, 3–4 poll. longis. *Ovarium* ampullæforme, *gynophoro* 4 poll. longo, *placentis* 4, pluriovulatis. *Ovula* longe-stipitata. *Nuculania* globosa, circiter 4 poll. in diam. *Semina* numerosa, fabæ magnæ magnitudine.

7. **C. retusella**, Thw. (c.p. 2550); *ramis ramulis*que ferrugineo-tomentosis, *stipulis* spinosis uncinatis armatis; *foliis* parvis, ovatis, versus apicem retusum angustatis; *racemis* terminalibus, 5–6-floris; *pedicellis* horizontalibus; *floribus* parvis.

Hab. Lower Badulla Road from Kandy, up to an elevation of 1500 feet.

Folia 1–2 poll. longa, 3–6 lin. lata, glabra, *juniora* ferrugineo-pilosa. *Petioli* 1¼ lin. longi, tomentosi. *Pedicelli* glabri, 6 lin. longi, basi *bractea* minuta lanceolata tomentosa suffulti. *Sepala* rotundata, albo-marginata, glabra, parce ciliata, 2 lin. longa. *Petala* alba, glabra, ciliata, oblonga, 3 lin. longa. *Stamina* circiter 30, *gynophorum* 4 lin. longum æquantia. *Ovarium* oblongum, apice attenuatum; *placentis* 2, pluriovulatis. *Ovula* brevi-stipitata. *Nuculania* globosa, 3 lin. in diam.

8. **C. pedunculosa**, Wall. No. 6999, (W. et A. Prod. i. 27.)—c.p. 1069.

Hab. Lower Badulla Road from Kandy, up to an elevation of 1500 feet.

9. **C. grandis**, Hb. Heyne, (W. et A. Prod. i. 27.)—c.p. 1071.

Hab. North-east of the island, *Gardner*.

10. **C. sepiaria**, Lin. (W. et A. Prod. i. 26, cum syn.)—c.p. 1063.

Hab. Jaffna, *Gardner*.

XIV. FLACOURTIACEÆ.

BIXEÆ.

1. BIXA, Lin.

1. **B. Orellana**, Lin. (W. et A. Prod. i. 31, cum syn.)—c.p. 2821.

Hab. Kornegalle, Four Korles, etc., but scarcely truly wild.

PROCKEÆ.

2. PHOBEROS, Lour.

Sect. 1.—*Foliis ad petioli apicem biglandulosis.*

1. **P. Arnottianus**, Thw. (c.p. 3526); *foliis* ovalibus, apicem versus obscure serratis; *sepalis* 8–10, oblongis.

Hab. I know of this species only from two not very old trees growing in the Botanic Garden, where there is no record of whence they were procured. Nom. vulg. "Katookooroondoo."

Arbor mediocris. *Truncus* spinis magnis compositis armatus. *Ramuli* plerumque

Digitized by Google

inermes. *Folia* 1½–2½ poll. longa, 1–1¼ poll. lata, apice obscure et brevissime acuminato, rotundato vel retuso. *Petioli* ¼ poll. longi. *Nuculania* pisi magnitudine, subglobosi, pulposi, rubro-nigrescentes.

There can be little doubt, I think, of this being Gærtner's plant, from the number of sepals being frequently 8, as he has figured them. It can scarcely be the *P. macrophyllus*, W. et A. Prod. i. 30, as the leaves are scarcely acuminated, and the fruit is pulpy, not dry.

Sect. 2.—*Foliis basi eglandulosis.*

2. **P. Gærtneri,** Thw.; *trunco* armato; *foliis* utrinque venis prominentibus reticulatis; *sepalis* 10, rotundatis, obtusis.—*Limonia pusilla,* Gærtn. i. 279. t. 58, 4.

Var. α. *oblongifolius* (C.P. 2497); *foliis* oblongis, basi apiceque plerumque rotundatis.

Var. β. *cordifolius* (*Scolopia pusilla,* Moon's Cat.)—C.P. 1076; *foliis* ovato- vel rotundato-cordatis, obtusis vel subacuminatis.

Var. γ. *lanceolatus* (C.P. 64, 181, 211); *foliis* lanceolatis, basi apiceque plus minus angustatis.

HAB. Warmer parts of the island, up to an elevation of 1500 feet. Var. β. Hot parts of the island, and especially near the seacoast. Var. γ. Hot, drier parts of the island. Nom. vulg. "Katoo-kooroondoo."

Arbor mediocris. *Folia* (varr. α. et γ.) 1–2 poll. longa, ½–⅔ poll. lata; (var. β.) valde variantia. *Nuculania* subglobosa, pisi magnitudine, pulposa, rubro-nigrescentia.

It is impossible to retain Gærtner's specific name of *pusillus* for this, which forms a large tree. The leaves of var. γ are less coriaceous and more minutely reticulated than those of vars. α and β, and it may possibly be a distinct species.

3. **P. acuminatus,** Gardner, MSS. (C.P. 1077); *foliis* glabris, ovato-lanceolatis, longe acuminatis, apicem versus obtusum serratis, basi angustatis; *sepalis* 10–12, late lanceolatis.

HAB. Central Province, at an elevation of 1000 to 3000 feet. Nom. vulg. "Katookenda."

Arbor mediocris, junior spinosa, denique inermis. *Folia* 2–3½ poll. longa, 1–1¾ poll. lata, subtus pallidiora, obscure et delicatule venosa. *Petioli* 2–3 lin. longi. *Nuculania* subglobosa, cerasi magnitudine, carnosa, viridia, firma nec pulposa.

4. **P. Hookerianus,** Wight, MSS. (C.P. 629); *foliis* ovatis, subacuminatis, obtusis, basi angustatis, margine parce undulatis; *sepalis* 12–14, oblongis.

HAB. Central Province, at an elevation of 4000 to 7000 feet.

Arbor ingens, junior spinosa, denique inermis. *Folia* 1¼–2 poll. longa, ¾–1 poll. lata, valde coriacea, subtus venis prominentibus reticulata. *Petioli* vix 2 lin. longi. *Nuculania* cerasi magnitudine vel majora, carnosa, viridia, firma nec pulposa.

FLACOURTIEÆ.

3. FLACOURTIA, Commers.

1. **F. sepiaria,** Roxb. (W. et A. Prod. i. 29, cum syn.)—C.P. 1650.

HAB. Hot, drier parts of the island, up to an elevation of 1500 feet.

2. **F. sapida,** Roxb. (W. et A., l. c.)—C.P. 2583.

HAB. Central Province, at an elevation of 1500 to 3000 feet. Nom. vulg. "Oogoorassa."

Digitized by Google

Arbor mediocris. *Truncus* spinis magnis compositis armatus. *Ramuli* cortice cinerascenti; *spinis* paucis, simplicibus, axillaribus. *Folia* 2–3 poll. longa, 1½–2 poll. lata, superne nitida, reticulatim venosa, subtus pallidiora. *Nuculania* cerasi parvi magnitudine, rubro-nigrescentia.

The fruit of this tree is eaten, when quite ripe, by the natives; but when unripe it is extremely astringent.

4. ROUMEA, Poit.

1. **R. hebecarpa,** Gardner, in Calcutta Journ. of Nat. Hist. vol. vii. p. 9 (C.P. 1075); arborea, inermis, *foliis* petiolatis, ovato-oblongis vel oblongo-lanceolatis, acuminatis, basi subobtusis, integris vel dentato-serratis, supra nitidis pubescentibus, subtus pallidis, tomentosis; *nuculaniis* globosis, velutinis.—*Gardner*.

HAB. Condasalle, Maturatte, etc. Nom. vulg. "Katambilla."

Arbor mediocris, 16–20-pedalis. *Ramuli* teretes, cinerei, tuberculati, *juniores* rufescentes, tomentosi. *Folia* circiter 4 poll. longa, 2 lata, *petiolo* circiter 4 lin. longo, *costa* venis primariisque rufescentibus. MAS. *Pedunculi* brevissimi, sæpe geminati. *Pedicelli* 10–20, umbellati, circiter 4 lin. longi, pubescentes. *Calyx* profunde 5–7-partitus, *lobis* lanceolatis, acutis, pubescentibus. *Stamina* numerosa; *filamentis* filiformibus, calycis segmenta æquantibus; *antheris* introrsis, obtusis. *Ovarii* rudimentum nullum vel parvum. *Discus hypogynus* nullus. FŒM. *Pedicelli* 1–3. *Calycis* lobi ovato-lanceolati, acuti, persistentes, circiter 3½ lin. longi. *Ovarium* dense pubescens, subglobosum, *disco* annulari crenulato cinctum, *placentis* 5–7, 2-ovulatis. *Styli* divergentes, 1½ lin. longi, pilosi. *Stigmata* radiatim fimbriata. *Nuculania* circiter 1 poll. in diam.—*A descript. cl. Gardner præcipue excerpt.*

The acid fruit of this species is eaten by the Cinghalese.

ERYTHROSPERMEÆ.

5. ERYTHROSPERMUM, Lam.

1. **E. phytolaccoides,** Gardner, l. c. p. 11 (C.P. 468); *foliis* sparsis, petiolatis, oblongo-lanceolatis, acuminatis, basi acutis, utrinque glaberrimis, integris vel obscure serratis; *racemis* paniculatis, axillaribus terminalibusque, folia subæquantibus; *sepalis* 5, ovatis, obtusis, concavis; *petalis* ovato-oblongis, ciliatis; *antheris* sagittatis.—*Gardner*.

HAB. Ambagamowa and Ratnapoora Districts, up to an elevation of 1500 feet.

Arbor mediocris, 20–30-pedalis. *Ramuli* glabri, teretes. *Folia* alterna, superne nitida, subtus pallidiora, venis prominentibus reticulata, 3½–8 poll. longa, 1½–3 poll. lata. *Petioli* 3–8 lin. longi, superne sulcati, basi apiceque tumiduli. *Stipulæ* minutæ, lanceolatæ, rufescentes. *Racemi* multiflori. *Pedunculi* glabri, obtusanguli, albidi. *Pedicelli* 2–3 lin. longi, basi 3-bracteolati. *Sepala* albida, rufo-tincta, circiter 2 lin. longa. *Petala* alba, ovato-oblonga, obtusa, ciliata, sepalis æquilonga. *Ovarium* oblongum, glabrum. *Capsula* globosa, 3–5 lin. in diam., fere ad basin 3–4-valva, oligosperma.—*A descript. cl. Gardner præcipue excerpt.*

XV. PANGIACEÆ.

1. HYDNOCARPUS, Gærtner.

1. **H. inebrians,** Vahl, (non W. et A. Prod. i. 30, et R. W. Ill. i. 38. t. 16.)—*H. venenata*, Gærtner, Fruct. i. 288. t. 60, 3.—C.P. 1630.

Digitized by Google

HAB. Banks of rivers, up to an elevation of 2000 feet. Nom. vulg. "Makooloo."

Arbor magna. *Folia* lanceolata, acuminata, serrata vel subintegra, basi plus minus angustata, subobliqua. *Sepala* rotundata, *petalis* rotundatis, ciliatis, 1½ lin. longis parce longiora. *Squamulæ* rotundatæ, acuminatæ, ferrugineo-strigosæ. *Nucularia* circiter 1 poll. in diam., ferrugineo-tomentosa, demum nigrescentia.

The fruit of this plant is used by the Cinghálese for intoxicating fish. The oil extracted from the seeds is employed as a remedy in cutaneous complaints.

2. **H. octandrus,** Thw. in Hooker's Journ. of Bot. vol. vii. (1855) p. 197.—C.P. 2640.

HAB. Ambagamowa District, at an elevation of about 2500 feet.

3. **H. alpinus,** Wight, Ic. t. 942.—C.P. 2918.

HAB. Saffragam and Bintenne Districts, at no great elevation.

2. TRICHADENIA, Thw. l. c.

1. **T. Zeylanica,** Thw. l. c. 196. t. 5.—C.P. 2505.

HAB. Central Province, at an elevation of about 3000 feet, not uncommon. Nom. vulg. "Tettigass."

The oil extracted from the seeds is used for diseases of the skin of children.

XVI. SAMYDACEÆ.

1. CASEARIA, Jacq.

1. **C. tomentosa,** Roxb. (DC. Prod. ii. 51.)—C.P. 1248.

HAB. Jaffna and Sigre, *Gardner.*

Ramuli pubescentes. *Folia* oblonga, utrinque angustata, obtusa, crenata, 3–4 poll. longa, 1–1½ lata, superne subglabra, subtus pubescentia. *Petioli* pubescentes, ¼ poll. longi. *Ovarium* 3-placentatum.

2. **C. Zeylanica,** (*C. ovata,* Willd.? *C. esculenta,* Roxb.? *Vareca Zeylanica,* Gærtn. Fruct. i. 290. t. 60, 6.)—C.P. 415, 2603; *foliis* lanceolatis, acuminatis, basi acutis, integris vel obscure dentatis, nitidis, reticulatis, *junioribus* parce hirsutis; *staminibus* 8; *ovario* hirsuto, 3-placentato; *stigmate* in medio depresso.

HAB. Hotter parts of the island, very common, up to an elevation of 1500 feet. Nom. vulg. "Wal-wareka."

Arbor mediocris. *Folia* 3–6 poll. longa, 1–2 poll. lata. *Petioli* ¼–½ poll. longi.

3. **C. Championi,** Thw. (C.P. 2608); *foliis* ovatis vel ovato-lanceolatis, acuminatis, glabris, nitidis, reticulatis; *staminibus* 8; *ovario* glabro, 3-placentato; *stigmate* plano, obscure 3-lobato.

HAB. Central Province, at an elevation of 3000 to 4000 feet.

Arbor mediocris. *Ramuli,* cum *foliis* junioribus, rufescentes, glabri. *Folia* 3–6 poll. longa, 1½–2½ lata. *Petioli* ¼–⅓ poll. longi.

4. **C. varians,** Thw.; *foliis* glabris, subopacis, integris vel rarius parce crenatis, obscure reticulatis, basi acutis; *staminibus* sæpissime 7; *ovario* glabro, 2-placentato; *stigmate* obscure 2-lobo.

Var. *a. ovata* (C.P. 2604 and 2657); *foliis* ovatis vel ovato-lanceolatis, acuminatis.

Var. *β. minor* (C.P. 3365); *foliis* ut in var. *a,* sed multo minoribus.

Digitized by Google

Var. γ. *obovata* (C.P. 1217, 1247); *foliis* obovatis, apice obtuse subacuminato, rotundato vel retuso.

HAB. Vars. α and β in the Central Province, at an elevation of 3000 to 5000 feet. Var. γ at Newera Ellia, at an elevation of 7000 to 8000 feet.

Variety α of this species bears considerable resemblance to *C. Championi*, as regards the shape and size of the leaves, but in other respects is sufficiently distinct.

5. **C. coriacea,** Thw. (C.P. 465); *foliis* obovatis, brevissime acuminatis, obtusis, basi angustatis, coriaceis, creberrime reticulatis, glabris, superne (siccis) nigricantibus, subtus cinereis; *staminibus* 6–8, *squamis* truncatis pilosis multo longioribus; *ovario* glabro, 2-placentato.

HAB. Adam's Peak, at an elevation of 6000 to 7000 feet.

Arbor mediocris. *Folia* 2–3 poll. longa, 1¼–1¾ lata. *Petioli* 2–3 lin. longi.

This species a good deal resembles the variety γ of *C. varians*, but the leaves are far more coriaceous, and more densely reticulated.

2. OSMELIA, Thw.

CHAR. GEN.—*Calyx* 5-partitus. *Stamina* 10 (5 cum totidem *squamulis* profunde bilobis, dense pilosis alternantia, 5 in earundem squamularum sinubus singulatim inserta), omnia fertilia, subæqualia. *Styli* 3, incurvati. *Capsula* subcoriacea, 3-valvis. *Semina* pauca.

1. **O. Gardneri,** Thw. (*Casearia paniculata,* Gardner, MSS.)—C.P. 1246.

HAB. Central Province, at an elevation of about 3000 feet. Not common.

Arbor mediocris, *cortice* lævi. *Ramuli* teretes, juniores pilosi. *Folia* integra, ovato-lanceolata, acuminata, glabra, pennivenia, 2½–4 poll. longa, 1–1½ poll. lata. *Petioli* superne sulcati, 2–3 lin. longi. *Stipulæ* minutæ, deciduæ. *Racemi* terminales, elongati, interrupti, multiflori, pubescentes, pauiculati. *Flores* brevissime pedicellati, albidi, plus minus rufo-tincti, singuli involucello minuto cupuliformi basi unibracteato suffulti. *Calycis lobi* rotundati, externe parce pilosi. *Stamina* exserta. *Ovarium* oblongum, dense pilosum, 3-placentatum; *placentis* 2–3-ovulatis. *Capsula* subglobosa, 1–4-sperma. *Semina* subglobosa, *arillo* carnoso, rubro; *testa* membranacea.

XVII. VIOLACEÆ.

1. VIOLA, Lin.

1. **V. Patrinii,** DC. (W. et A. Prod. i. 32, cum syn.)—C.P. 1087.

HAB. Central Province, at an elevation of 5000 to 8000 feet. Not uncommon.

2. **V. Wightiana,** Wall. (W. et A. Prod. l. c.; R. W. Illust. 943.)—C.P. 153.

Var. α. *pubescens; planta tota* plus minus pubescens, *foliis* crenato-serratis.

Var. β. *glabra; planta tota* glabra, *foliis* obscure crenato-serratis.

HAB. Var. α, Central Province, very abundant, at an elevation of 4000 to 8000 feet. Var. β in wet, spongy places, at Newera Ellia.

2. IONIDIUM, Ventn.

1. **I. suffruticosum,** Ging. in DC. (W. et A. Prod. l. c.; R. W. Ill. 308.)—C.P. 76.

Digitized by Google

HAB. Hot, dry, exposed places, up to an elevation of 3000 feet. Common.

2. **I. ramosissimum,** Thw. (C.P. 1084); fruticosum, suberectum, *foliis* linearibus, apiculatis, lævibus, integerrimis, glaucis, marginibus revolutis.

HAB. Banks of the Mahawelliganga at Haragam.

Closely allied to the preceding species, but besides the characters mentioned above, the stems are much more woody, and the internodes shorter, than in *I. suffruticosum.* In the inflorescence of the two species I can discover no difference; and the glandular-tipped stipules are alike in both.

3. ALSODEIA, Thouars.

1. **A. Zeylanica,** Thw. (*Pentaloba Zeylanica,* Arn. Mag. of Zool. and Bot. ii. 543.)—C.P. 2669.

HAB. Ratnapoora District. Not uncommon.

Frutex erectus, 10–12-pedalis. *Ramuli* teretes, cinerei, opaci, juniores pilosi. *Folia* lanceolata vel ovato-lanceolata, acuminata, 2½–6 poll. longa, 1–2½ poll. lata, nitida, reticulata, dentata. *Petioli* 2½–5 lin. longi, superne sulcati. *Stipulæ* lanceolatæ, acutæ, appressæ, 3–4 lin. longæ, rufo-fuscæ, subpersistentes. *Fasciculi* pluribracteolati, bracteolis acutis, rufo-fuscis. *Pedicelli* circiter 1 lin. longi. *Flores* albidi. *Calycis lobi* lanceolati, acuti, petalis apice recurvatis, plus quam dimidio breviores, rufo-tincti. *Urceolus* rufescens, 5-crenatus; crenaturis filamentis supra basin insertis oppositis. *Staminum filamenta* cum ligulis alba, *antherarum* loculi introrsi, flavi. *Stigma* trilobum.

4. Gen. Nov. SCYPHELLANDRA, Thw.

Sepala 5. *Petala* 5. *Glandulæ* 5, minutæ, carnosæ, petalis alternantes, *staminum* 5 dorso appressæ. *Antheræ* subsessiles, marginibus cohærentes, singulæ connectivo lato in ligulam apicalem, liberam, membranaceam producto. *Ovarium* sessile, 1-loculare; *stylo* lineari; *stigmate* 3-lobato. *Capsula* 3-valvis, 3–4-sperma.

1. **S. virgata,** Thw.; *foliis* alternis, ovatis vel oblongis, denticulatis, glabris, basi apiceque obtusis, petiolatis.—C.P. 1085.

HAB. Not uncommon in the hot, drier parts of the island.

Frutex parvus. *Ramuli* virgati, cinerei, striati; *juniores* pilis curvatis pubescentes. *Folia* magnitudine etiam in ramo uno valde varia, 1½–14 lin. longa, 1–6 lin. lata. *Petioli* ½–1 lin. longi, pubescentes. *Stipulæ* minutæ, lanceolatæ. *Pedunculi* axillares, solitarii, 1-flori, 1–2 lin. longi, basi pluri-bracteolati. *Sepala* ovata, acuminata, *petalis* lineari-oblongis, 5-nervis, circiter 1 lin. longis plus quam dimidio breviora. *Capsula* 2½ lin. longa.

This interesting little plant has the anthers of *Hymenanthera* and the carpels and numerous bracteolæ of *Alsodeia,* thus forming a connecting link between the two genera.

XVIII. DROSERACEÆ.

1. DROSERA, Lin.

1. **D. Burmanni,** Vahl, (W. et A. Prod. i. 34, cum syn; R. W. Ic. 944.)—C.P. 1089.

HAB. Not uncommon throughout the island.

2. **D. Indica,** Linn. (W. et A. Prod. l. c. cum. syn.)—C.P. 1088.

HAB. South of the island. Not common.

Digitized by Google

3. **D. lunata,** Ham. (DC. Prod. i. 319.)—C.P. 2553.
HAB. Common in the most elevated districts of the island.

XIX. POLYGALACEÆ.

1. POLYGALA, Lin.

1. **P. telephioides,** Willd. (W. et A. Prod. i. 36, cum syn.)—C.P. 1080.
HAB. Colombo, Haragam, etc.

2. **P. rosmarinifolia,** W. et A. Prod. i. 37 (non Eck. et Zeyh.).
Var. a. *mucronata* (C.P. 715 et 1083); *foliis* glabris vel parce pubescentibus, *bracteolis* longe mucronatis.
Var. β. *puberula* (C.P. 1082); *foliis* pubescentibus, *bracteolis* raro mucronulatis.
HAB. Not very common, but generally distributed, occurring from the level of the sea up to an elevation of 4000 feet.

I have hitherto been disposed to consider vars. α and β distinct species, but they resemble each other so closely in most respects that it is perhaps hardly safe to separate them on account of such trivial differences as the greater or less pubescence of the foliage, or the bracteoles being mucronate or otherwise.

3. **P. elongata,** Klein, in Willd. Sp. iii. 879; DC. Prod. i. 332.—*P. densiflora*, Blume, Bijd. 59.—(C.P. 7, 260, et 592.)
Var. β. *hirsutula*.—*P. hirsutula*, Arn. Pug. 4 (322.)—C.P. 1079, 1081.
HAB. Central Province, at an elevation of 4000 to 7000 feet.

This is a very variable species, especially in the form and hairiness of the leaves, and length of the racemes. The flowers, which are of a bluish or a purple colour, are very uniform in size and structure throughout the several varieties. The narrow border of the capsule is pubescent with curved hairs, and with these are frequently intermixed straight, longer hairs. Var. β occurs on banks at Newera Ellia, and is only a stunted form of the plant.

4. **P. Javana,** DC. Prod. i. 327 (W. et A. Prod. i. 38.)—C.P. 184.
Var. β. *angustifolia*: *foliis* lineari-oblongis.
HAB. Var. α, north of the island, *Gardner*. Var. β, Balangodde, *Gardner*, and Matturatte.

5. **P. leptalea,** DC. Prod. i. 325.—*P. oligophylla*, DC., l. c.—C.P. 3550.
HAB. Nilgalla, in the Badalla District; amongst high grass, rare.

6. **P. arillata,** Ham. (W. et A. Prod. i. 39; R. W. Icon. 946.)—C.P. 434 et 517.
HAB. Central Province, at an elevation of 4000 to 7000 feet.

2. SALOMONIA, Lour.

1. **S. oblongifolia,** DC. Prod. i. 334 (*S. leptostachya*, Wall. Cat.)—C.P. 1086.
HAB. Swampy ground in the south of the island.

Mr. W. Ferguson, who has been examining Hermann's Herbarium in the British Museum, informs me that this plant is there called *Polygala ciliata*.

2. **S. cordata,** Arn. Pugillus, 4 (322.)—*S. cordata* et *S. obovata*, Wight, Illust. 49 et 50. t. 22 B, etc.—C.P. 2906.
HAB. Similar places with the preceding.

The spikes of flowers are more compact in this species, and the cilia upon the capsules are much longer.

Digitized by Google

3. XANTHOPHYLLUM, Roxb.

1. **X. flavescens,** Roxb. (W. et A. Prod. i. 39, cum syn.)—C.P. 1244.
HAB. South of the island, at no great elevation.

XX. TAMARISCINEÆ.

1. TRICHAURUS (Arn. MSS.), W. et A.

1. **T. ericóides,** Arn. MSS. (W. et A. Prod. i. 40, cum syn; R. W. Illust. $\frac{24}{141}$ B.)—C.P. 1254.
HAB. Negombo, Puttam, and Moolitivoe, *Gardner*.

XXI. ELATINEÆ.

1. BERGIA, Linn.

1. **B. verticillata,** W. et A. Prod. i. 41, cum syn.—C.P. 3551.
HAB. Swampy places in the Batticaloa District.

2. **B. ammannoides,** Roxb.—*Elatine* (*Bergia*) *ammannoides*, W. et A. Prod. i. 41, cum syn.; Wight, Illust. p. 54. t. 25 A.—C.P. 1543.
HAB. North of the island, *Gardner*.

XXII. SESUVIACEÆ.

1. TRIANTHEMA, Sauv.

1. **T. crystallina,** Vahl, (W. et Prod. i. 355, cum syn.)—C.P. 3552.
HAB. Batticaloa District.

2. **T. obcordata,** Roxb. (W. et A. Prod. i. 355, cum syn.; R. W. Icon. t. 288.)—C.P. 1102.
HAB. Very common on the seacoast of the island.

3. **T. decandra,** Lin. (W. et A., l. c. cum syn.; Wight, Icon. t. 296.)—C.P. 1104.
HAB. East of the island, *Gardner;* Colombo, etc. Nom. vulg. "Saarana." Used as a medicine.

2. SESUVIUM, Linn.

1. **S. repens,** Rottb. (W. et A. Prod. i. 361, cum syn.)—C.P. 1098.
HAB. Trincomalee, *Gardner*.

XXIII. PORTULACEÆ.

1. PORTULACA, Tourn.

1. **P. oleracea,** Lin. (W. et A. Prod. i. 356, cum syn.)—C.P. 1103.
HAB. Abundant throughout the island. Nom. vulg. "Genda-kola."

2. **P. quadrifida,** Lin. (W. et A., l. c. cum syn.)—C.P. 1100.
HAB. Very abundant. Nom. vulg. "Heen-genda-kola."

Digitized by Google

3. **P. suffruticosa,** R. W. (W. et A., l. c.)—C.P. 1101.
HAB. Damboul, *Gardner*.

XXIV. CARYOPHYLLACEÆ.

1. STELLARIA, Linn.

1. **S. drymarioides,** Thw.; *foliis* rotundatis, apiculatis, basi in petiolum angustatis, nervo intramarginali conspicuo munitis; *cymis* terminalibus, subdichotomis; *floribus* post anthesin cernuis.—C.P. 400.
HAB. Hapootelle Pass, at an elevation of about 4000 feet. April, 1856.

Caulis tetragonus, procumbens, elongatus, radicans, *ramulis* erectis. *Folia* ½–1¼ poll. longa et æquilata, sparse pilosa, *petiolo* 1–4 lin. longo. *Cymæ* viscoso-tomentosæ, ramis sæpe elongatis. *Pedicelli* flores subæquantes. *Sepala* 5, ovata, subacuta, *petalis* albis divaricato-bifidis duplo longiora. *Discus annularis* parvus, 5-lobus; *lobis* rotundatis, cum petalis alternantibus.

2. **S. media,** Sm.—C.P. 3090.
HAB. Newera Ellia, probably introduced.

2. CERASTIUM, Linn.

1. **C. Indicum,** W. et A. Prod. i. 43.—C.P. 2957.
HAB. Newera Ellia, Horton Plains, and other very elevated parts of the island.

In Ceylon specimens the leaves are lanceolate, and the flowers are of about equal length with their pedicels.

3. MOLLUGO, Linn.

1. **M. nudicaulis,** Linn. (W. et A. Prod. i. 43, cum syn.)—C.P. 2809.
HAB. Colombo, etc.

2. **M. pentaphylla,** Linn., including *M. triphylla*, Linn.; W. et A., l. c.—C.P. 1096.
HAB. Common in the warmer parts of the island.

3. **M. stricta,** Lin. (W. et A. Prod. i. 44, cum syn.)—C.P. 1097.
HAB. Not uncommon with the preceding.

4. **M. cerviana,** Ser. (W. et A., l. c. cum syn.)—C.P. 1092.
HAB. Common in hot, sandy places. Nom. vulg. "Pat-paadagan." Used as a medicine in fevers.

5. **M. disticha,** Ser. (W. et A., l. c. cum syn.)—C.P. 1094.
HAB. Near the seacoast; not uncommon.

6. **M. Spergula,** Linn. (W. et A., l. c. cum syn.)—C.P. 1095.
HAB. Common in the warmer parts of the island.

4. GLINUS, Linn.

1. **G. dictamnoides,** Linn. (W. et A. Prod. i. 362.)—C.P. 2937.
HAB. Not uncommon in the hot, drier parts of the island.

I have found ten stamens in all the Ceylon specimens I have examined.

Digitized by Google

XXV. PARONYCHIACEÆ.

1. POLYCARPÆA, Lam.

1. **P. corymbosa,** Lam. (W. et A. Prod. i. 358, cum syn.; R. W. Icon. t. 712.)—C.P. 2383.

HAB. Not uncommon in the drier parts of the island, up to an elevation of 4000 feet.

2. HAPALOSIA, Wall.

1. **H. Lœflingiæ,** Wall. (W. et A. Prod. i. 358, cum syn.)—C.P. 1090.

HAB. Warm, drier parts of the island.

3. DRYMARIA, Willd.

1. **D. cordata,** Willd. (W. et A. Prod. i. 359, cum syn.)—C.P. 1091.

HAB. Central Province, up to an elevation of 4000 feet.

XXVI. LINEÆ.

1. LINUM, Linn.

1. **L. Mysorense,** Heyne, (W. et A. Prod. i. 134, cum syn.)—C.P. 3127.

HAB. Abundant between Newera Ellia and Badulla, at an elevation of from 4000 to 6000 feet.

Folia trinervia, acuta. *Petala* pallide flava, rotundata, obtusa. *Filamenta* a supra-medio dilatata, basi coalita; dentibus intermediis nullis.

XXVII. HUGONIACEÆ.

1. HUGONIA, Linn.

1. **H. Mystax,** Linn. (W. et A. Prod. i. 72, cum syn.; Wight, Illust. 79. t. 32.)—C.P. 1185.

HAB. Not uncommon in the warmer parts of the island. Nom. vulg. "Boogatteya."

2. **H. ferruginea,** W. et A., l. c.—C.P. 1187.

HAB. Hot, drier parts of the island.

XXVIII. MALVACEÆ.

1. URENA, Linn.

1. **U. lobata,** Linn. (W. et A. Prod. i. 46, cum syn.)—C.P. 3328.

HAB. Very common throughout the island. Nom. vulg. "Patta-appele." Liber used for cordage.

2. **U. sinuata,** Linn. (W. et A., l. c. cum syn.)—C.P. 1129.

HAB. Equally common with the preceding. Nom. vulg. "Heen-appele."

Digitized by Google

2. PAVONIA, Cav.

1. **P. odorata,** Willd. (W. et A. Prod. i. 47, cum syn.)—C.P. 1125.
HAB. Hot, drier parts of the island, up to an elevation of 1500 feet.

2. **P. Zeylanica,** Cav. (W. et A., l. c. cum syn.)

I have not met with a plant corresponding quite with the description given of this, and suspect it is but a form of the preceding, which I find with the leaves of the involucel varying in number from eleven to fifteen. Its flowers, when fresh, are either white or very pale red, becoming of a dull reddish colour when dry.

3. HIBISCUS, Linn.

1. **H. Surattensis,** Linn. (W. et A. Prod. i. 48, cum syn.)—C.P. 1118.
HAB. Very common in the hotter parts of the island. Nom. vulg. "Naapiritta."

2. **H. furcatus,** Roxb. (W. et A., l. c. cum syn.)—C.P. 727.
HAB. Very common up to an elevation of 2000 feet. Nom. vulg. "Heen-naapiritta."

3. **H. Lampas,** Cav. (W. et A. Prod. i. 48, cum syn.)—C.P. 3555.
HAB. Near Nilgalla, in the Badalla District.

4. **H. panduriformis,** Burm. (W. et A. Prod. i. 50, cum syn.)—C.P. 3528.
HAB. Borders of a tank, at Toonkimy, in the Atakalan Corle. September, 1857.

5. **H. vitifolius,** Linn. (W. et A., l. c. cum syn.)—C.P. 1122.
HAB. Not uncommon, up to an elevation of 3000 feet.

6. **H. eriocarpus,** DC. (W. et A., l. c. cum syn.)—C.P. 1119.
HAB. In the hot, drier parts of the island, up to an elevation of 1500 feet.

7. **H. micranthus,** Linn. (W. et A. Prod. i. 51, cum syn.)—C.P. 1126.
HAB. Hot, drier parts of the island, very abundant.

4. PARITIUM, Ad. Juss.

1. **P. tiliaceum,** Ad. Juss. (W. et A. Prod. i. 52, cum syn.)—C.P. 1120.
HAB. Not uncommon up to an elevation of 2000 feet. Nom. vulg. "Bellipatta." The liber is used by the Cinghalese for rough ropes.

5. ABELMOSCHUS, Med.

Nom. vulg. "Kapookanissa."

1. **A. angulosus,** Wall. (W. et A. Prod. i. 53, cum syn.); *involucello* (calyce, *W. et A.*) subpersistente; *calyce* membranaceo, tenero, spathæformi, cum corolla deciduo.

Var. *α. grandiflorus; petiolis* scabris, nec hispidis; *corolla* majore, flava; *seminibus* subpyriformibus.—C.P. 2567.

Var. *β. purpureus; petiolis* pilis rigidis hispidis; *corolla* purpurea, venis pallidioribus; *seminibus* globosis.—C.P. 1117.

HAB. Var. *α*. Not uncommon in the Central Province, up to an elevation of 4000 feet. Var. *β*. Newera Ellia.

Digitized by Google

There appears to have been some misconception with regard to the involucel and calyx of this species. The true calyx is of a very tender membranaceous structure, consisting of five sepals united at their edges into the form of a spathe, which falls at the same time with the corolla.

Vars. α and β may possibly prove to be specifically distinct.

2. **A. moschatus,** Mœnch. (W. et A. Prod. i. 53, cum syn.)—C.P. 726.
HAB. South of the island; not uncommon.

3. **A. ficulneus,** W. et A., l. c.—C.P. 1157.
HAB. Colombo, *Moon.* Borders of the Minery Tank.

6. THESPESIA, Corr.

1. **T. populnea,** Corr. (W. et A. Prod. i. 54, cum syn.)—C.P. 1121.
HAB. Colombo, *Moon.* Calpentyne, *Gardner;* near Vavenery, in the Batticaloa District, apparently wild. Much used for planting as an ornamental and useful tree. Nom. vulg. "Sooreya-gass."

7. LAGUNEA, Cav.

1. **L. lobata,** Willd. (W. et A. Prod. i. 55, cum syn.)—C.P. 67.
HAB. Very abundant in the hot, drier parts of the island. Galagama, *Gardner.*

8. ABUTILON, Dill.

Nom. vulg. "Anoda."

1. **A. polyandrum,** W. et A., l. c. cum syn.—C.P. 1186.
HAB. I have not met with this in a wild state, and there is no record of where the herbarium specimen was found.

2. **A. Indicum,** G. Don, (W. et A., Prod. i. 56, cum syn.)—C. P. 1133.
HAB. Not uncommon.

3. **A. Asiaticum,** G. Don, (W. et A., l. c. cum syn.)—C.P. 1135.
HAB. Not uncommon.

4. **A. graveolens,** W. et A., l. c. cum syn.—C.P. 1134.
HAB. Common.

5. **A. tomentosum,** W. et A., l. c. cum syn.—C.P. 3529.
HAB. Near Taugalle, Sept. 1857.

9. WISSADULA, Medilo.

1. **W. periplocifolia,** Presl.—*Abutilon periplocifolium,* G. Don; W. et A. Prod. i. 55, cum syn.—C.P. 1132.
HAB. Very common in the south of the island.

10. SIDA, Linn.

Nom. vulg. "Babilla."

1. **S. acuta,** Burm. (W. et A. Prod. i. 57, cum syn.; Wight, Icon. t. 95.)—C.P. 2760.
HAB. Hot, drier parts of the island.

Digitized by Google

2. **S. rhombifolia,** Linn. (DC. Prod. i. 462.)—C.P. 1131 (1130).
HAB. Very abundant.

3. **S. retusa,** Linn. (W. et A. Prod. i. 58, cum syn.)—C.P. 3117.
HAB. Very common. Nom. vulg. "Kotekau-babilla." This is used as a medicine by the Cinghalese.

4. **S. alba,** Linn. (W. et A., l. c. cum syn.)—C.P. 3553.
HAB. Vavenery, in the Batticaloa District.

5. **S. cordifolia,** Linn. (W. et A., l. c. cum syn.)—C.P. 259.
HAB. Hot, drier parts of the island.

6. **S. Mysorensis,** Herb. Madr. (W. et A. Prod. i. 59, cum syn.)—C.P. 1123.
HAB. Not uncommon in the warmer parts of the island.

7. **S. humilis,** Willd. (W. et A., l. c. cum syn.)—C.P. 1124.
HAB. Very abundant.

XXIX. STERCULIACEÆ.

1. ADANSONIA, Linn.

1. **A. digitata,** Linn. (W. et A. Prod. i. 61, cum syn.)—C.P. 1141.
HAB. Naturalized in the north of the island.

2. SALMALIA, Sch. et End.

1. **S. Malabarica,** Sch. et End. (Walp. Rep. i. 330, cum syn.; Wight, Illust. p. 72, t. 29.)—C.P. 545.
HAB. Common in the warmer parts of the island. Nom. vulg. "Katoo-imbool-gass."

3. ERIODENDRON, DC.

1. **E. orientale,** Steud. Nom. 587.—*E. anfractuosum,* DC.; W. et A., l. c. cum syn.; Wight, Icon. t. 400.—C.P. 1138.
HAB. Very common, up to an elevation of 2000 feet. Nom. vulg. "Imbool-gass."

4. CULLENIA, Wight.

1. **C. excelsa,** Wight, Icon. Pl. Ind. Orient. t. 1761–2.—*Durio Zeylanicus,* Gardner, in Calc. Journ. of Nat. Hist. vol. viii.—C.P. 734.
HAB. Common in the Central Province, at an elevation of from 2000 to 5000 feet. Nom. vulg. "Kattoo-bodde, Kattooherileya."

5. HELICTERES, Linn.

1. **H. Isora,** Linn. (W. et A. Prod. i. 60, cum syn.; Wight, Icon. t. 180.)—C.P. 1137.
HAB. Common in the hotter parts of the island. Nom. vulg. "Leeneya-gass."

6. HERITIERA, Ait.

1. **H. littoralis,** Ait. (W. et A. Prod. i. 63, cum syn.)—C.P. 1143.

Digitized by Google

HAB. South of the island, not uncommon. Nom. vulg. "Attoona."

7. STERCULIA, Lin.

1. **S. Balanghas,** Linn. (W. et A. Prod. i. 62, cum syn.; Wight, Illust. p. 78. t. 30.)—C.P. 1142.
HAB. Hotter parts of the island, common.

2. **S. guttata,** Roxb. (W. et A. Prod. i. 62, cum syn.; Wight's Icon. t. 487.)—C.P. 2723.
HAB. Ambagamowa District, at no great elevation.

3. **S. urens,** Roxb. (W. et A. Prod. i. 63, cum syn.)—C.P. 2858.
HAB. Hot, drier parts of the island, not uncommon.

4. **S. fœtida,** Linn. (W. et A., l. c. cum syn.; Wight, Icon. t. 181 and 364.)—C.P. 1140.
HAB. Very common in the warmer parts of the island. Nom. vulg. "Telemboo." The seeds are eaten by the Cinghalese.

8. PTERYGOTA, Endl.

1. **P. alata,** Br. in Brown et Bennett, Pl. Jav. Rar. 234.—*P. Roxburghii*, Sch. et Endl., Walp. Rep. v. 103. *Sterculia alata*, Roxb. Cor. iii. p. 84. t. 287.—C.P. 2963.
HAB. Banks of the Mahawelliganga, at Haragam.

9. FIRMIANA, Marsili.

1. **F. colorata,** Br. l. c. 235, cum syn.—C.P. 2566.
HAB. Hot, drier parts of the island.

XXX. BYTTNERIACEÆ.

1. GUAZUMA, Plum.

1. **G. tomentosa,** H.B.K. (W. et A. Prod. i. 64; Wight, Illust. 78. t. 31.)—C.P. 1114.
HAB. Jaffna, *Gardner*.

2. Gen. Nov. PITYRANTHE, Thw.

Calyx urceolatus, 3–4-lobatus. *Petala* 5, æqualia, subcuneiformia. *Stamina fertilia* 15, ternatim cum alteris 5 *sterilibus* acutis spathulatis æquilongis alternantia; *filamentis* liberis vel imo basi cohærentibus; *antheris* adnatis, loculis divaricatis. *Ovarium* sessile, 5-loculare, loculis 2-ovulatis; *ovulis* superpositis; *stylis* 5, arcte coalitis; *stigmatibus* minutis, simplicibus. *Capsula* inflata, turbinata, sæpissime 1-sperma, loculicide dehiscens.

Genus *Kleinhoviæ* affine, sed calyce urceolato, petalis æqualibus, filamentis subliberis et ovario sessili differt.

1. **P. verrucosa,** Thw.—*Kleinhovia verrucosa*, Gardn. MS.—C.P. 1144.
HAB. Abundant in the Batticaloa District; Jaffna and Trincomalee, *Gardner*; Putlam, *A. O. Brodie, Esq.*

Arbor. *Folia* obovata, crenata, basi rotundata, 3-nervia, 2–6 poll. longa, 1–3

Digitized by Google

poll. lata, superne nitida, subtus pallida, pubescentia stellari tomentosa, *petiolo* ⅓–⅔ poll. longo. *Paniculæ* terminales, lepidotæ. *Flores* circiter 1¼ lin. longi. *Capsulæ* furfuraceæ, verrucosæ. *Semina* nigra, oblonga, 2 lin. longa, minutissime reticulata, pubescentia stellari pallida decidua vestita.

3. WALTHERIA, Linn.

1. **W. Indica,** Linn. (W. et A. Prod. i. 67, cum syn.)—C.P. 1128.
HAB. Batticaloa, *Gardner*.

4. MELOCHIA, Linn.

1. **M. corchorifolia,** Linn.—*Riedleia corchorifolia,* DC. (W. et A. Prod. i. 66, cum syn.)—C.P. 1127.
HAB. Very abundant.

5. PTEROSPERMUM, Schreb.

1. **P. suberifolium,** Lam. (W. et A. Prod. i. 68, cum syn.)—C.P. 1136.
HAB. Common up to an elevation of 2000 feet, especially in the drier parts of the island. Nom. vulg. "Velenge." The wood is useful for many purposes where toughness is required.

6. KYDIA, Roxb.

1. **K. axillaris,** Thw.; *foliis* integris, ovato-lanceolatis, lævibus; *floribus* solitariis, axillaribus.—C.P. 3126.
HAB. Near Badulla, at an elevation of about 2000 feet.

Arbor mediocris. *Folia* 2½–4½ poll. longa, 1¼–2 poll. lata, subtus pallidiora, basi rotundata, petiolo 3–4 lin. longo. *Involucelli* fructiferi segmenta lineari-oblonga, 1 poll. longa, 3–3½ lin. lata. *Calyx* cupuliformis, 5-dentatus, ¼ poll. longus. *Ovarium* biloculare. *Fructus* hispidus.

This species I have only seen in fruit, and am therefore not quite certain that it is a true *Kydia*. The axillary inflorescence and the character of the foliage give it a very different aspect from that of *K. calycina*. The latter species has not, so far as I am aware, been detected wild in Ceylon, though it most probably occurs so in the north of the island.

7. Gen. Nov. JULOSTYLIS, Thw.

Involucellum 4-phyllum, persistens. *Calyx* 5-partitus, persistens. *Corollæ* petala 5, basi coalita, subtus ad sinus plicato-appendiculata. *Tubus stamineus* cylindricus, apice dentatus, anantherus, medium versus *filamentis* 10, biserialibus, æquilongis, *monantheriferis* cinctus, basi corollæ adnatus. *Antheræ* reniformes. *Ovarium* biloculare; loculis 2-ovulatis; *ovulis* collateralibus, adscendentibus. *Stylus* supra medium bifidus. *Stigmata* disciformia.

1. **J. angustifolia,** Thw.—*Kydia angustifolia,* Arn. Pug. Pl. Ind. Orient. 4 (322).—C.P. 1146.
HAB. South of the island, not uncommon.

Arbor mediocris, parce ramosa. *Folia* 5–8 poll. longa, 1½–3 poll. lata, pubescentia stellari-hirsuta, subtus pallidiora, *petiolo* 3–5 lin. longo. *Paniculæ* terminales, pendulæ. *Flores* ½ poll. lati. *Corolla* cupuliformis, pallida, interne dimidio inferiore rufa. *Stylus* versus apicem dense lanuginosus.

Digitized by Google

The anthers of this species are quite those of a Malvaceous plant, but from its near affinity with *Kydia* it must remain in the same Natural Order in which that is located.

XXXI. TILIACEÆ.

SECT. *TILIEÆ.*

1. CORCHORUS, Linn.

1. **C. urticæfolius,** W. et A. Prod. i. 73, cum syn.—C.P. 2758.
HAB. Trincomalee, *Moon.*

2. **C. olitorius,** Linn. (W. et A., l. c. cum syn.)—C.P. 1107.
HAB. Hotter parts of the island, common.

3. **C. acutangulus,** Lam. (W. et A., l. c. cum syn.; Wight, Icon. t. 739.)—C.P. 1106.
HAB. Same situations as the last, common.

4. **C. capsularis,** Linn. (W. et A., l. c. cum syn.; Wight, Icon. t. 311.)—C.P. 1105.
HAB. Very common.

2. TRIUMFETTA, Plum.

Nom. vulg. "Appela."

1. **T. pilosa,** Roth. (W. et A. Prod. i. 74, cum syn.)
Var. *α*; capsularum echinis firmis, 2 lin. longis, prope basin parce pilosis, apiculo vix curvato.—C.P. 2902.
Var. *β*; capsularum echinis debilibus, 4½ lin. longis, dense longe pilosis, apiculo hamato.—C.P. 730.
HAB. Var. *α.* Common in cultivated ground. Var. *β.* Maturatte.

2. **T. angulata,** Lam. (W. et A., l. c. cum syn.; Wight, Icon. t. 320.)—C.P. 2759.
HAB. Common everywhere.

3. GREWIA, Juss.

Nom. vulg. "Caaleya."

1. **G. orientalis,** Linn. (W. et A. Prod. i. 76, cum syn.)—C.P. 1110, 1112, 2419, and 2997.
HAB. Warmer parts of the island, up to an elevation of 1500 feet.

2. **G. columnaris,** Sm. (W. et A., l. c. cum syn.)—C.P. 1111.
HAB. Hot, drier parts of the island, not uncommon.

3. **G. hirsuta,** Vahl, (W. et A., l. c. i. 78, cum syn.)—C.P. 3554.
HAB. Open, grassy places in the east of the island.

4. **G. helicterifolia,** Wall. MSS. (Walp. Rep. ii. 799.)—C.P. 1113.
HAB. In similar situations with the last, and equally common.

Dr. Wight named this "*G. rotundifolia*, MSS., var. fol. obliquis acuminatis." It differs from the description of *G. helicterifolia* in the peduncles being commonly much longer than the petioles.

5. **G. diplocarpa,** Thw.; *foliis* lanceolatis, acuminatis, crenato-serratis, 3-nerviis, sublævibus; *fructibus* parce strigosis, bipartitis, segmentis bilobis.—C.P. 2568.

Digitized by Google

Hab. Maturatte and Oova, at an elevation of about 3000 feet.

Folia 3–4 poll. longa, 1¼–1¾ lata, juniora parce hirsuta, *petiolo* 4–5 lin. longo, hirsuto. *Stipulæ* parvæ, lanceolatæ, hirsutæ. *Pedunculi* solitarii, axillares, petiolis æquilongi, 3-flori. *Bracteoli* parvi. *Sepala* linearia, extus cinereo-tomentosa, petalis lanceolatis acutis plus quam duplo longiora. *Stigma* dilatatum, 4-lobatum.

6. **G. tiliæfolia,** Vahl, (W. et A. Prod. i. 80, cum syn.)—C.P. 621.
Hab. Warmer parts of the island, common.

7. **G. Microcos,** Linn. (W. et A. Prod. i. 81, cum syn.; Wight, Illust. 81. t. 33.)—C.P. 1109.
Hab. Very abundant, up to an elevation of 3000 feet.

4. BERRYA, Roxb.

1. **B. Ammonilla,** Roxb. (W. et A., l. c. cum syn.; Wight, Illust. 82. t. 34.)—C.P. 1108.
Hab. Hot, drier parts of the island. Nom. vulg. "Hal-milills." The wood of this fine tree is very valuable for building and other purposes.

SECT. *ELEOCARPEÆ*.

5. ELÆOCARPUS, Linn.

Nom. vulg. "Weraloo, Gal-weraloo."

1. **E. serratus,** Linn. (Fl. Zeyl. 206; Burm. Th. Zeyl. t. 40.)—C.P. 539 (554, 1115).
Hab. Warmer parts of the island, up to an elevation of 2000 feet.

Stamina 30–35, omnia ad valvæ exterioris apicem setis 3–4 longis rigidis patentibus instructa. *Drupa* oblonga.

The fleshy exterior of the drupes of this and the following species are eaten by the Cinghalese.

2. **E. obovatus,** Arn. Pug. Pl. Ind. Or. 5 (323).—*E. coriaceus*, Hook. Ic. Plant. v. 2. t. 154.—C.P. 316.
Hab. Newera Ellia and other elevated parts of the island, at an elevation of from 6000 to 8000 feet.

Drupa sphærica, putamine ruguloso-tuberculato.

3. **E. montanus,** Thw.; *foliis* ovatis vel rotundatis, obtusis, denticulatis, parce hirsutis (junioribus subtus tomentosis), *venis* primariis ad axillas ramificationes divaricatasque conspicue glanduliferis; *antheris* nudis; *drupis* sphæricis.—C.P. 624 (630, 642).
Hab. In similar localities with the last.

Arbor mediocris. *Folia* 2–3½ poll. longa, *petiolo* ½–1 poll. longo. *Racemi* axillares, foliis æquilongi, tomentosi.

4. **E. amœnus,** Thw.; *foliis* lævibus, lanceolatis vel ovato-lanceolatis, brevi-acuminatis, obtusis, crenato-serratis, denticulatis, subtus ad nervarum primariarum axillas glanduliferis; *antheris* nudis; *drupis* sphæricis.—C.P. 2587 and 2651 (? C.P. 2524).
Hab. Central Province, up to an elevation of 4000 feet.

Arbor mediocris. *Gemmæ* pilosæ. *Folia* 2–4 poll. longa, ¾–2 poll. lata, *petiolo* 4–8 lin. longo. *Racemi* numerosi, parce pilosi, e foliorum delapsorum axillis, foliis breviores.

Some specimens (C.P. 2524) in the herbarium are somewhat different in appear-

Digitized by Google

ance, but they are not sufficiently perfect to enable me to determine whether they are really distinct from or are a mere state of the present species.

5. **E. subvillosus**, Arn. Pug. 5 (323).—*E. pubescens*, Hooker, Ic. Pl. ii. t. 155. *E. integrifolius*, Moon's Cat.—C.P. 704.

HAB. Saffragam District, up to an elevation of 2000 feet.

Drupa oblonga, putamine tuberculato, apice acuto.

6. MONOCERA, Jack.

1. **M. glandulifera**, Hook. (Wight, Illust. p. 84.)—C.P. 675 (2476).

HAB. Central Province; not uncommon, at an elevation of from 4000 to 6000 feet.

2. **M. Walkeri**, Wight, l. c.—? *M. Ceylanica*, Arn. Pug. p. 5 (323).—C.P. 8 and 166 (172, 421).

HAB. Saffragam District, not very common, at an elevation of about 5000 feet.

I suspect this must be Dr. Arnott's *M. Ceylanica*, which, having been described, as he states, from a single specimen, may not indicate the typical character of the species.

XXXII. DIPTEROCARPEÆ.

1. DIPTEROCARPUS, Gærtner.

1. **D. Zeylanicus**, Thw.; *foliis* magnis, ovatis vel oblongis, breviacuminatis, glabris, petiolo longo costaque leprosis; *gemmis* villosis; *calycis fructiferi* tubo urceolato, 5-costato.—C.P. 1921.

HAB. Abundant, up to an elevation of 3000 feet. Nom. vulg. "Hora-gass."

Arbor ingens. *Racemi* axillares, solitarii, prope basin bifidi, 6–12-flori, ad ramulorum apices aggregati, leprosi. *Pedicelli* tubo calycis campanulato paulo breviores.

The fruit of this species closely resembles Gærtner's *D. costatus* (De Fruct. tab. 187) as regards the size and form of the segments of the enlarged calyx, but differs from it essentially in the constriction beneath these. From *D. lævis*, Hamilton, the only other species with which it can be confounded, its costate or angled fruit would seem sufficiently to distinguish it.

A gum-resin and wood-oil are obtained from this and the species following.

2. **D. hispidus**, Thw.; *foliis* maximis, oblongis, brevi-acuminatis, subcordatis, superne ad costam et subtus *petiolo*que pilis rigidis fasciculatis patentibus hirsutis; *calycis fructiferi* tubo sphærico vel subpyriformi, pedicellato, leproso, apice 5-angulo, contracto.—C.P. 2903. (C.P. 3405 *in parte.*)

HAB. Saffragam District, at no great elevation. Nom. vulg. "Boo-hora-gass."

This species is well distinguished by its large hispid leaves, one of which in my collection, from a young tree, is 19 inches long and 9 inches wide, with a petiole 2½ inches long. The enlarged calyx-lobes are 6–7 inches long.

3. **D. oblongifolius**, Thw.; *foliis* oblongis, brevi-acuminatis, basi rotundatis, superne ad costam et subtus ad costam venas primariasque hirsutis; *ramis junioribus*, *gemmis petiolis*que pilis rigidis nitentibus subpatentibus hispidis; *racemis* supra-axillaribus, solitariis, simplicibus,

Digitized by Google

2–4-floris, hispido-leprosis; *calyce* incano-leproso, 5-angulato, in *pedicello* brevi desinente.—C.P. 3405.

HAB. Near Ratnapoora, April, 1855.

Arbor ingens. *Folia* 5–7 poll. longa, 2½–4 poll. lata, *petiolo* 1–2 poll. longo.

4. **D. scabridus,** Thw.; *foliis* lineari-oblongis, brevi-acuminatis, basi parce angustatis, superne glabris, subtus pubescentia stellari sparsa scabridis, *costa* subtus *petiolo*que pilis rigidis adpressis hirsutis; *calycis fructiferi* tubo parce leproso, subsphærico, angulis 5 singulis in membranam undulatam pedicello brevi attingentem productis.—C.P. 2692. (C.P. 3406, *in parte*.)

HAB. Near Ratnapoora, September, 1855.

Arbor ingens. *Folia* circiter 7 poll. longa, 2¼ lata, *petiolo* ¾ poll. longo. *Calycis fructiferi* laciniæ majores 3½–4½ poll. longæ, ¾–1 poll. latæ.

The adpressed pubescence and the shape of the leaves distinguish this species.

5. **D. glandulosus,** Thw.; *foliis* ovatis, acuminatis, basi rotundatis, superne lævibus, costa venisque primariis hirsutis, subtus pilis minutis coloratis conspersis; *ramis junioribus, gemmis petiolis*que piloso-leprosis; *racemis* axillaribus, solitariis, 2–3-floris, leprosis; *calyce* 5-angulato, in pedicello brevi desinente, leproso; *calycis fructiferi* tubo subsphærico, angulis in membranam medio latissimam pedicello tenui sæpissime non attingentem productis.—C.P. 2590.

HAB. Saffragam and Ambagamowa Districts, at no great elevation. Nom. vulg. "Dorana-gass."

Arbor ingens. *Folia* 4–6 poll. longa, 2–2½ poll. lata, *petiolo* 6–8 lin. longo. *Calycis fructiferi* laciniæ majores 3–4 poll. longæ, 7–8 lin. latæ.

This species is easily recognized by the glandular pubescence on the under side of its leaves, which is at first pale-yellow, then red, and in the old leaves nearly black.

6. **D. insignis,** Thw.; *foliis* ovatis, acuminatis, lævibus, basi rotundatis, subtus costa venisque primariis hirsutis; *ramis junioribus, gemmis petiolis*que pubescentibus; *racemis* supra-axillaribus, solitariis, 3–5-floris, basi pubescentibus, apicem versus lævibus; *pedicellis* subnullis; *calyce* 5-angulato, angulis per totam longitudinem late membranaceo-alatis.—C.P. 3406.

HAB. Saffragam District, April, 1855.

Arbor ingens. *Folia* 4½–5½ poll. longa, 2–2½ poll. lata, *petiolo* 7–9 lin. longo.

This species is easily distinguishable from the others by its smooth, longitudinally 5-bordered calyx, subsessile upon the rachis of the raceme.

D. turbinatus, Roxb., cultivated in Ceylon, is C.P. 2398.

2. DOONA, Thw.

Hook. Journ. of Bot. vol. iv. (1852) p. 7.

Stamina 15, biserialia. *Embryo* cotyledonibus foliaceis valde inæqualibus; harum maxima inter stratum oleoso-albuminosum contorto-convoluta, in germinatione inclusa; altera brevissima, in germinatione sæpe emergente.

1. **D. Zeylanica,** Thw. l. c. vol. iii. t. 12; *foliis* lanceolatis vel ovato-lanceolatis, acuminatis, basi angustatis, venis inconspicuis; *pedicellis* calyce longioribus.—C.P. 2423.

Digitized by Google

Hab. Central Province, up to an elevation of 4000 feet. Nom. vulg. "Doon-gass."

A large quantity of colourless gum-resin exudes from the trunk and branches of this fine tree, which, when dissolved in spirits of wine or turpentine, makes an excellent varnish.

2. **D. affinis,** Thw.; *foliis* lanceolatis vel lineari-lanceolatis, longe acuminatis, basi rotundatis, venis subinconspicuis; *pedicellis* calyce longioribus.—c.p. 3409.

Hab. Between Ratnapoora and Galle, at no great elevation.

Arbor ingens. *Folia* 2–3 poll. longa (acumine 4 lin. longo), 9–11 lin. lata, *petiolo* circiter 4 lin. longo.

Closely allied to the preceding, but the leaves are larger and differently shaped, and the petioles much stouter.

3. **D. nervosa,** Thw.; *foliis* ovatis, ovato-lanceolatis vel lanceolatis, longe acuminatis, opacis, venis venulisque prominulis, basi rotundatis; *pedicellis* calyce subæquilongis; *calycis fructiferi* laciniis majoribus spathulato-dilatatis.—c.p. 3410.

Hab. Ekualagodde, near Ratnapoora, April, 1855.

Arbor ingens. *Folia* 3–4 poll. longa (acumine ½ poll. longo), 1¼–1¾ lata.

4. **D. trapezifolia,** Thw.; *foliis* trapezoideo-lanceolatis, acuminatis, basi rotundatis, superne minute reticulatis, subtus venis inconspicuis; *pedicellis* calyce æquilongis; *calycis fructiferi* laciniis majoribus spathulato-linearibus.—c.p. 3341.

Hab. Central and southern parts of the island, up to an elevation of 1500 feet; a common forest tree. Nom. vulg. "Tuccahaaloo-gass."

Arbor ingens. *Folia* 2½–3½ poll. longa (acumine circiter 3 lin. longo), 9–14 lin. lata, *petiolo* 4 lin. longo.

5. **D. congestiflora,** Thw.; *foliis* ovato-lanceolatis, acuminatis, basi rotundatis vel subcordatis; *floribus* ad apices panicularum congestis; *pedicellis* brevissimis.—c.p. 3411.

Hab. Hinidoon and Pasdoon Corles, April, 1855. Nom. vulg. "Tinneya-gass."

Arbor ingens. *Folia* 3½–5 poll. longa, 1¼–2 poll. lata, *petiolo* 4–5 lin. longo.

This fine species is characterized by its numerous shortly-stalked flowers collected towards the ends of the panicles. The fruit, with its enlarged calyx, closely resembles that of the preceding and following species.

6. **D. Gardneri,** Thw.; *foliis* ovatis vel ovato-lanceolatis, acuminatis, basi rotundatis, longe petiolatis; *floribus* cernuis, *pedicellis* calyce brevioribus.—c.p. 1919.

Hab. Central Province, at an elevation of from 3000 to 5000 feet.

Arbor ingens. *Folia* 2–3 poll. longa, 1¼–1¾ lata, *petiolo* 6–7 lin. longo.

A very distinct and beautiful species.

7. **D. cordifolia,** Thw.; *foliis* oblongis, abrupte acuminatis, cordatis, subtus nitidis, venis venulisque prominentibus.—c.p. 3340.

Hab. Pasdoon Corle and Ambagamowa, at no great elevation. Nom. vulg. "Bairaleya."

Arbor ingens. *Folia* 3–4 poll. longa (acumine circiter ½ poll. longo), 1½–2½ poll. lata, *petiolo* 3–5 lin. longo.

I have not yet been able to obtain the flowers of this species, which is said to produce them only once in three years. Some seeds which were given to me

Digitized by Google

were unfortunately all sown, and none reserved for the herbarium. The Cinghalese eat the ripe seeds after toasting or frying them.

3. SHOREA, Roxb.

1. **S. oblongifolia,** Thw.; *foliis* lineari-oblongis, abrupte acuminatis, basi truncato-rotundatis vel cordatis; ramis *paniculæ* secundifloris.—C.P. 3005.

HAB. Saffragam and other districts in the south of the island, at no great elevation.

Arbor ingens. *Folia* 4–6 poll. longa, 1¾–2½ poll. lata, *petiolo* 6–8 lin. longo. *Ramuli juniores petioli*que, cum *paniculis* supra-axillaribus, minute stellato-incani. *Pedicelli* brevissimi. *Flores* flavi, odorati, dorso strigosi. *Calyx fructiferus* minute tomentosus, laciniis sursum dilatatis. *Fructus* tomentoso-incanus.

This is evidently closely allied to, if it be not a variety of, *Vatica Tumbugaia*, W. and A., Wight, Icon. tab. 27, with which it would seem to correspond very nearly in the inflorescence and in the structure of the fruit, but the leaves are much longer compared with their width.

2. **S.? stipularis,** Thw.; *foliis* oblongis, brevi-acuminatis, basi rotundatis vel subcordatis, longe petiolatis, lævibus; *stipulis* magnis, ovatis, subobliquis, striatis, diu persistentibus.—C.P. 3408.

HAB. Between Ratnapoora and Galle, at no great elevation.

Arbor ingens, *ramulis* teretibus. *Folia* 4–6 poll. longa, 2–4 poll. lata, *petiolo* 12–14 lin. longo. *Stipulæ* 6–11 lin. longæ, 4–7 lin. latæ. *Calycis fructiferi* laciniæ sursum dilatatæ; tres majores 5–5½ poll. longæ, 1¼ poll. latæ, 11–14-costatæ; duæ minores 3½–4 poll. longæ, 5–6 lin. latæ, 6–8-costatæ. *Fructus* subsphæricus, apice conico acuto.

I have not seen the flowers, nor have I been able to ascertain the character of the inflorescence of this fine species, but, judging from the structure of the fruit, it must be very nearly allied to this genus. The large size and persistence of the stipules form a very striking character.

In the herbarium are specimens of the foliage of what appears to be another species of *Shorea* (C.P. 3407), but the description must be deferred until better materials can be collected.

4. HOPEA, Roxb.

1. **H. discolor,** Thw.; *foliis* lanceolatis, longe acuminatis, basi rotundatis, superne lævibus, ad costam venasque primarias canaliculatis, subtus brunneo-leprosis; *paniculis* axillaribus, ramis secundifloris; *pedicellis* brevissimis.—C.P. 3125.

HAB. Saffragam and Ambagamowa Districts, at no great elevation.

Arbor ingens, *ramulis* teretibus, nigro-rufis, leprosis. *Folia* 2½–3½ poll. longa (acumine circiter ½ poll. longo), 8–13 lin. lata, petiolo 4–5 lin. longo. *Paniculæ* solitariæ vel 2–3-fasciculatæ, foliis multo breviores, rufescentes, parce leprosæ. *Flores* flavo-rufescentes, odoratissimi. *Calycis fructiferi* laciniæ majores spathulatæ, 2¼ poll. longæ. *Fructus* subconicus, lævis.

The rich brown colour of the under side of the leaves well distinguishes this beautiful species.

5. VATERIA, Linn.

Stamina numerosa, indefinita, multiserialia, apice bifida.

Digitized by Google

1. **V. Indica,** Linn. (W. et A. Prod. i. 83, cum syn.; Wight, Ill. t. 36; Gærtner, De Fruct. iii. 53. t. 189.)—C.P. 1918.

HAB. Common in the hotter parts of the island, up to an elevation of 2000 feet. Nom. vulg. "Hal-gass." A gum-resin exudes in considerable quantity from this handsome tree, and is much used by the Cinghalese for burning during some of their superstitious ceremonies.

Arbor ingens, trunco lævi. *Ramuli* teretes, *juniores* stellato-furfuracei. *Folia* oblonga vel lineari-oblonga, apiculata, basi cordata, 6–18 poll. longa, 3–6 poll. lata; *petiolo* tereti, 1½–2½ poll. longo, apice incrassato. *Stipulæ* lineari-lanceolatæ, dorso furfuraceæ, deciduæ, circiter 1 poll. longæ. *Paniculæ* ad apices ramorum, foliis subæquilongæ, flocculoso-furfuraceæ, pallide-ochraceæ, multifloræ. *Flores* brevi-pedicellati, bibracteolati. *Bracteolæ* ovatæ, acutæ, 4 lin. longæ. *Stamina* numerosa, *filamentis* brevissimis, basi coalitis; *antheris* introrsis, longitudinaliter dehiscentibus, basi bi-auriculatis, loculis ad apicem divergentibus, acutis. *Fructus* 4 poll. longi, 2½–3 poll. lati.

Blume, in his Mus. Bot. Lugd. Bat. ii. 29, makes two species of the Linnæan *Vateria Indica,* reserving this name for the Ceylon plant, and calling the Peninsular one *V. Malabarica.* I have no means of determining whether this view is correct, but in order to assist in clearing the matter of doubt, I have given above a pretty full description of the Ceylon plant.

The figure of this species in Dr. Wight's Illust. tab. 36 is not satisfactory. Gærtner's figure of the fruit is very characteristic, though it is rather smaller than ordinary specimens.

6. ISAUXIS, Arn.

Stamina 15, biserialia. *Calyx fructifer* multum auctus.

1. **I. Roxburghiana,** Wight, Illust. p. 88; Icon. Pl. Ind. Or. t. 26. —C.P. 3416.

HAB. South of the island, at no great elevation. Nom. vulg. "Mandora-gass." This tree yields a considerable quantity of gum-resin.

Antheræ planæ, obtusæ, connectivo in apiculum brevem producto. *Calyx fructifer* basi depressus, laciniis 5-nerviis. *Fructus* 3-sulcatus, apice depresso.

I have little doubt of this being Dr. Wight's plant, though there is a slight discrepancy between my specimens and the figure in the 'Icones;' but this is most likely due to a little want of accuracy on the part of the draftsman.

7. STEMONOPORUS, Thw.

Hook. Journ. of Bot. vol. vi. (1854) p. 67.

Stamina 15, biserialia, *antheris* apice per laterum involutionem tubulatis. *Calyx fructifer* non auctus.

Sect. 1.—*Inflorescentia paniculata.*

1. **S. Wightii,** Thw.; *foliis* oblongis vel lineari-oblongis, apiculatis, basi rotundatis vel subcuneatis, subtus scabridis, longe petiolatis; *antheris* brevi-apiculatis.—*S. macrophyllus,* Thw. MSS. in Herb. Hook. ? Vateria Ceylanica, *Wight, Illust.* p. 88.—C.P. 3415.

HAB. In forests between Galle and Ratnapoora, and at Palmadoolla, near the latter place.

Arbor ingens. *Folia* 5–12 poll. longa, 3–6 poll. lata, *venis primariis* circiter 20, *petiolo* 1½–3 poll. longo. *Paniculæ* foliis multo breviores.

Digitized by Google

2. **S. Gardneri,** Thw. l. c. tab. 2 *A.*; *foliis* ovato-acuminatis, basi rotundatis vel subcordatis.—C.P. 1920.

HAB. Rambodde, *Gardner;* near Adam's Peak, at an elevation of about 5000 feet.

Arbor magna. *Folia* 3–5 poll. longa, 1¼–2½ poll. lata, *venis primariis* circiter 10, *petiolo* ½–1 poll. longo. *Paniculæ* numerosæ ad apices ramulorum.

Sect. 2.—*Floribus paucis, racemosis vel solitariis; pedunculis pedicellisque brevibus.*

3. **S. affinis,** Thw. l. c.; *foliis* ovato-oblongis, acuminatis, basi rotundatis; *pedunculis* sæpissime 1-floris.—C.P. 2430.

HAB. Hunasgiria District, at an elevation of about 4000 feet.

Arbor magna. *Folia* 3–4½ poll. longa (acumine circiter ½ poll. longo), 1½–2½ poll. lata, *venis primariis* circiter 8, *petiolo* 6–8 lin. longo.

4. **S. lanceolatus,** Thw. l. c.; *foliis* lanceolatis vel oblongo-lanceolatis, acuminatis, basi cuneatis, superne glabris, venis prominentibus reticulatis, subtus scabridis; *pedunculis* sæpissime 1-floris.—C.P. 2658.

HAB. Near Ratnapoora, at no great elevation.

Arbor parva. *Folia* 4½–8½ poll. longa (acumine 4–8 lin. longo), 1¼–3 poll. lata, *venis primariis* circiter 8, *petiolo* 5–7 lin. longo.

5. **S. canaliculatus,** Thw.; *foliis* oblongis, lanceolatis vel lineari-lanceolatis, plus minus abrupte acuminatis, basi rotundatis vel subcuneatis, superne ad costam canaliculatis, subtus scabridis lævibusve; *pedunculis* sæpissime 1-floris.—C.P. 3413.

HAB. Hinidoon and Reigam Corles, at no great elevation.

Arbor mediocris. *Folia* 4–6 poll. longa (acumine circiter ½ poll. longo), 1¼–2½ lata, *venis primariis* circiter 12, *petiolo* ½–1½ poll. longo, apicem versus incrassato. *Fructus* 1½ poll. in diam.

This bears considerable resemblance to the species preceding and following it, but its canaliculated leaves distinguish it from both.

6. **S. petiolaris,** Thw.; *foliis* lineari-oblongis, abrupte acuminatis, basi rotundatis vel subcuneatis, superne lævibus, subtus scabridis lævibusve, longe petiolatis; *pedunculis* 1–3-floris.—C.P. 3151.

HAB. Kittool Galle, at no great elevation.

Arbor mediocris. *Folia* 6–10 poll. longa (acumine ½–¾ poll. longo), 2–2¾ poll. lata, *venis primariis* circiter 12, *petiolo* 1–3 poll. longo, apicem versus incrassato.

7. **S. rigidus,** Thw. l. c.; *foliis* rigidissimis, scabridis, oblongis, apice rotundatis vel subapiculatis, basi cuneatis vel cuneato-rotundatis; *pedunculis* sæpissime 1-floris.—C.P. 2645.

HAB. Ambagamowa District, at an elevation of about 3000 feet.

Arbor magna. *Folia* 3½–5½ poll. longa, 1½–2¼ lata, *venis primariis* circiter 9, *petiolo* 6–8 lin. longo.

8. **S. oblongifolius,** Thw. l. c.; *foliis* lævibus, oblongis, subacuminatis, obtusis, basi rotundatis; *pedunculis* 1–4-floris.—C.P. 2646.

HAB. Ambagamowa District, at an elevation of about 4000 feet.

Arbor magna. *Folia* 4–6½ poll. longa, 1¾–2½ lata, *venis primariis* circiter 8, *petiolo* 4–6 lin. longo.

9. **S. reticulatus,** Thw.; *foliis* oblongis vel oblongo-lanceolatis, longe acuminatis, basi rotundatis, superne nitidis, subtus opacis inter venas primarias reticulato- nec parallelo-venosis, longe petiolatis; *pedunculis* sæpissime 1-floris.—C.P. 3414.

Digitized by Google

HAB. Hinidoon Corle, at an elevation of about 1000 feet.

Arbor mediocris. *Folia* 2½–5 poll. longa (acumine ½–1 poll. longo), 1¼–2¼ lata, *venis primariis* circiter 8, *petiolo* 7–15 lin. longo. *Fructus* rotundatus, apice parce acuminatus, 1½ poll. in diam.

10. **S. nitidus,** Thw.; *foliis* ovatis vel ovato-lanceolatis, acuminatis, basi rotundatis vel subcuneatis, utrinque nitidis, subtus reticulatis; *pedunculis* 1-floris.—*S. lucidus*, Thw. MSS. in Herb. Hook.—C.P. 3483.

HAB. Pasdoon Corle, at no great elevation.

Arbor mediocris. *Folia* 2½–3½ poll. longa (acumine 3–6 lin. longo), 8–13 lin. lata, *venis primariis* circiter 6, *petiolo* 3–4 lin. longo.

Closely allied to but perfectly distinct from the preceding.

11. **S.? Moonii,** Thw.; *foliis* anguste lanceolatis, basi cuneatis, superne lævibus, subtus ad costam venas primariasque, cum *petiolo* tereti, pilosis; *stipulis* longis, lineari-lanceolatis, rigidis, persistentibus; *pedunculis* 1-floris, in foliorum delapsorum axillis inter stipulas persistentes.—C.P. 1792.

HAB. Maturatte?, *Moon.*

Folia 6–10 poll. longa, 1–2 poll. lata, *petiolo* circiter 1 poll. longo. *Stipulæ* 8–10 lin. longæ.

This interesting species is so unlike in general appearance those that precede it in this genus, that it was with some surprise I found, upon an analysis of an unopened flower, that it corresponded with them in the number, structure, and arrangement of the stamens, and in the external characters of the ovary and style. There are only two indifferent specimens in the herbarium, and one of these without flowers, collected by Mr. Moon many years ago, so that I have not materials for such a critical examination of the plant as would be desirable.

8. MONOPORANDRA, Thw.

Hook. Journ. of Bot. vol. vi. (1854) p. 69.

Stamina 5, *antheris* apice per laterum involutionem tubulatis. *Ovarium* 2-loculare.

1. **M. cordifolia,** Thw. l. c.; *foliis* ovatis vel oblongis, longe acuminatis, basi cordatis vel rotundatis, superne costa et sæpissime venis primariis depressis, subtus venis secundariis parallelis; *paniculis* multifloris.—C.P. 2647.

HAB. Ambagamowa and Saffragam Districts, at an elevation of about 3000 feet.

Arbor mediocris, ramosissima. *Folia* 2–4½ poll. longa (acumine ½–1 poll. longo), 1–2¼ poll. lata, *petiolo* 4–11 lin. longo.

2. **M. elegans,** Thw. l.c.; *foliis* ovatis vel oblongis, longe acuminatis, basi rotundatis, superne ad costam depressis, venis prominentibus, subtus inter venas primarias reticulato-venosis; *pedunculis* paucifloris.—C.P. 371.

HAB. Saffragam District, at an elevation of about 2000 feet.

Arbor mediocris, ramosissima. *Folia* 1½–2½ poll. longa (acumine 4–6 lin. longo), 6–10 lin. lata, *petiolo* 2–5 lin. longo.

3. **M. lancifolia,** Thw.; *foliis* lanceolatis, valde acuminatis, basi rotundatis, superne costa venisque prominentibus; *pedunculis* paucifloris.—C.P. 3412.

HAB. Hellessee, in the Pasdoon Corle, at no great elevation. April, 1855.

Digitized by Google

Arbor parva, ramosissima. *Folia* 2¼–3½ poll. longa (acumine 4–8 lin. longo), 7–11 lin. lata, *petiolo* 3–4 lin. longo.

XXXIII. TERNSTRŒMIACEÆ.

1. CLEYERA, Thunb.

1. **C. gymnanthera,** W. et A. Prod. i. p. 87.—C.P. 778 (779).

HAB. Common in forests of the Central Province, at an elevation of 4000 feet and upwards.

2. **C. emarginata,** Gard. in Calc. Journ. of Nat. Hist. vol. vii. p. 447. —C.P. 782.

HAB. Not uncommon near Adam's Peak and other more elevated parts of the island.

Frutex glaber, 10–16-pedalis. *Ramuli* teretes. *Folia* coriacea, spathulata, apicem versus crenato-serrata, emarginata, subtus pallidiora, 1½–2½ poll. longa, 9–15 lin. lata. *Pedunculi* axillares, solitarii, 1-flori, circiter 8 lin. longi. *Flores* flavido-purpurascentes, cernui, bracteolis 2 minutis suffulti. *Petala sepalis* duplo longiora, circiter 4 lin. longa. *Stamina* numerosa, glabra, *filamentis* brevibus, planis; *antherarum* introrsarum loculis linearibus, connectivo lato, filamento continuo, apice producto separatis. *Ovarium* glabrum, biloculare; *loculis* 1-ovulatis; *stylo* brevi, bifido; *stigmatibus* 2, dilatatis, lobulatis. *Fructus* conicus, 2-spermus.

I have examined a great many specimens of this plant, and have invariably found two minute bracteolæ below each flower, and the loculi of the ovary one-ovuled. The leaves must be considered sessile, since the lamina is continued to their very base, though it forms but a narrow border to each side of the costa in the lower part.

2. GORDONIA, Ellis.

1. **G. Zeylanica,** Wight, Illust. i. p. 99.

Var. *a. lanceolata; ramulis* pilosis, *foliis* lanceolatis vel oblongo-lanceolatis.—C.P. 788.

Var. *β. elliptica; ramulis* lævibus vel sublævibus, *foliis* latioribus. —*G. elliptica,* Gard. l. c. vol. vii. p. 448.—C.P. 2417.

HAB. Forests of the Central Province, at an elevation of 4000 to 7000 feet.

This species, according to the situation in which it occurs, varies very much in the size of the flowers and size and shape of the leaves. In exposed places where the soil is poor, the var. *a* is found, whilst in more sheltered localities and richer soil the plant is much more luxuriant, and puts on the form of var. *β*. In a series of specimens the two forms may be seen to pass imperceptibly into each other.

2. **G. speciosa,** Thw.—*Carria speciosa,* Gardn. l. c. vol. vii. p. 7.— C.P. 2403.

HAB. Rather uncommon; in damp forests of the Central Province, at an elevation of 5000 feet and upwards.

Arbor magna, 40–50-pedalis. *Ramuli* teretes, glabri. *Folia* integra, sessilia, coriacea, glabra, elliptica vel ovata, retusa, 3–4½ poll. longa, 1½–2¾ poll. lata. *Flores* magni, axillares, sessiles vel brevi-pedunculati; *petalis* cordatis, sanguineo-purpureis, 1½–2 poll. longis.

I regret being obliged to include in the genus *Gordonia* this fine species, which Dr. Gardner dedicated, under the generic name of *Carria*, to the late excellent Sir Wm. Carr; but I find that the characters upon which he based his generic distinctive diagnosis are common to the other Ceylon species of *Gordonia*. The structure of the anthers is the same in both, and the analysis of the seed of *Gordonia Zeylanica*

Digitized by Google

corresponds with that which he gives of *Carria speciosa,* the cotyledons being perfectly flat, and not plaited.

3. SAROSANTHERA, Korthals.

1. **S. lasiopetala,** Thw.—*Cleyera lasiopetala,* Wight, Ill. i. p. 99. *Eurya lasiopetala,* Gardner, l. c. vol. vii. p. 446.—C.P. 775 (776, 783).

HAB. Common in the forests of the Central Province, at an elevation of 6000 feet and upwards.

Arbor mediocris. *Ramuli* teretes, minute strigosi. *Folia* oblongo-lanceolata, obtusa vel subacuminata, retusa, margine revoluta, minute denticulata, superne glabra, subtus minute et parce strigosa, 2½–4 poll. longa, ¾–1 poll. lata. *Pedunculi* axillares, solitarii, 1-flori, cernui, circiter 8 lin. longi, apice incrassati. *Flores* hermaphroditi, 6–8 lin. in diam., externe sericeo-strigosi; *petalis* albidis. *Fructus* globosus, carnosus nec pulposus, circiter 5 lin. in diam.

This description is taken principally from the one published by Dr. Gardner.

4. EURYA, Thunb.

1. **E. Japonica,** Thunb. Fl. Jap. p. 191, t. 25.

Var. *α. Thunbergii;* ramulis teretibus, glabris.—*E. Japonica,* DC. Prod. i. 525. *E. elliptica,* Gardner, l. c. vol. vii. p. 443.—C.P. 777 (787).

Var. *β. acuminata;* ramulis teretibus, pilosis.—*E. acuminata,* DC. Prod. i. 525. *E. membranacea,* Gard. l. c. vol. vii. p. 444.—C.P. 1078 (785, 786).

Var. *γ. Chinensis;* ramulis angulosis, pilosis.—*E. Chinensis,* R. Br. Abel's Voy. App. p. 379; DC. l. c.; Bentham in Hook. Kew Journ. of Bot. vol. iii. (1851) p. 307. *E. Ceylanica,* Wight, Ill. i. 98; Gardner, l. c. vol. vii. p. 444.—C.P. 2600.

Var. *δ. parvifolia; ramulis* angulosis, pilosis; *foliis* minoribus, pallidis.—*E. parvifolia,* Gardner, l. c. vol. vii. p. 445.—C.P. 784.

HAB. Vars. *α*, *β*, and *δ* in the more elevated parts of the island, up to 8000 feet; *δ* in exposed situations; var. *β* from a little above the sea-level, up to an elevation of 5000 feet, very abundant. Nom. vulg. "Neyadasse-gass."

It is only after a very careful and long-continued study of these plants that I have ventured to unite them as forms of one variable species. I have been quite unable to discover, in those parts where other botanists have thought they existed, any definite difference of structure sufficient to constitute a distinction of species. The number of the stamens and apparent length of the style vary in the same variety just as much as between the so-called species, and it seems to me quite impossible to draw a clear line of distinction between the several varieties, since specimens are to be met with combining them all by intermediate links.

Cochlospermum Gossypium, DC., is not found in a wild state in the island, but only, as Dr. Gardner has remarked, in the vicinity of temples.

XXXIV. OLACACEÆ.

TRIBE *OPILEÆ.*

1. OPILIA, Roxb.

1. **O. amentacea,** Roxb. Corom. Pl. t. 158; Wight, Illust. p. 103, t. 40.—C.P. 2916 (1147).

HAB. Hot, drier parts of the island, at no great elevation.

Digitized by Google

TRIBE *OLACEÆ.*

2. OLAX, Lin.

1. **O. Zeylanica,** Lin. (W. et A. Prod. i. 88, cum syn.)—C.P. 1214.
HAB. Southern part of the island; abundant. Nom. vulg. "Malla." The Cinghalese eat the leaves of this plant in their curries.

2. **O. scandens,** Roxb. (W. et A., l. c. p. 89, cum syn.)—C.P. 1216.
HAB. Hot, drier parts of the island.

3. **O. Wightiana,** Wall. (W. et A., l. c. cum syn.)—C.P. 1215.
HAB. Warmer parts of the island; not uncommon.

3. STROMBOSIA, Blume.

1. **S. Javanica,** Bl. Bijdr. p. 1154; Mus. Bot. Lugd. Bat. p. 251, t. 47.—*S. Ceylanica,* Gardner, in Calc. Journ. of Nat. Hist. vol. vi. p. 350.—C.P. 1237.
HAB. In forests of the Central Province, up to an elevation of 3000 feet.

Blume's figure and description leave no room for doubt that this is his plant.

TRIBE *ICACINEÆ.*

4. BURSINOPETALUM, Wight, Icones, 956.

1. **B. arboreum,** Wight, l. c. Var. *macrophyllum.*—C.P. 637, 2440.
HAB. Forests of the Central Province, at an elevation of 4000 to 7000 feet.

Arbor ingens. *Folia* ovato-oblonga, acuminata, 4–9 poll. longa, 1¾–4 poll. lata, *petiolo* 1–2 poll. longo.
I can discover no character to distinguish this from Dr. Wight's plant but the larger size of the leaves, and do not venture to separate it on that account only. A comparison with authentic specimens of Dr. Wight's *B. arboreum* may possibly prove this to be distinct from it, and in that case it might be called *B. macrophyllum.*

2. **B. tetrandrum,** Wight, MSS.; *foliis* oblongis vel ovato-oblongis, *floribus* tetrameris.
Var. *α*; foliis longe acuminatis.—C.P. 2441.
Var. *β*; foliis minoribus, apice rotundatis vel abrupte et brevi-acuminatis.—C.P. 2542.

Arbor ingens. *Folia* 2–4 poll. longa, ¾–2 poll. lata, *petiolo* 4–8 lin. longo. Distinguished most readily from the preceding by its smaller, tetramerous flowers; the leaves, also, are not nearly so large, and the ripe fruit is more cylindrical in form, and smaller.

5. APODYTES, E. Mey.

1. **A. Gardneriana,** Miers, Ann. and Mag. of Nat. Hist. ser. 2. vol. ix. p. 389.—C.P. 204 (495, 1218, 1219).
HAB. Forests of the Central Province, at an elevation of from 5000 to 7000 feet; not uncommon.

Arbor mediocris. *Folia* 2–4 poll. longa, ¾–2 poll. lata, *petiolo* 3–5 lin. longo.

Digitized by Google

I have not had an opportunity of comparing this with *A. Benthamiana*, Wight, Icon. t. 1153, which is described as having larger flowers than those of this species. The Ceylon plant invariably turns blackish in drying.

6. MAPPIA, Jacq.

1. **M. fœtida,** Miers, l. c. p. 395.—*M. ovata*, Miers, l. c. p. 396. *Stemonurus? fœtidus*, Wight, Icon. t. 955; Spicil. Neilgh. t. 23.—C.P. 492.

Var. *a. Gardneriana; alabastris* rotundatis.—*M. Gardneriana*, Miers, l. c. p. 396.

Var. *β. Championiana; foliis* membranaceis, *alabastris* oblongis.—*M. Championiana*, Miers, l. c. 397.

HAB. One of the commonest plants in the island, and to be met with from the level of the sea, up to an elevation of 7000 feet. Nom. vulg. "Gandapaana-gass."

Owing to its great range in elevation, this plant varies a great deal in appearance and in the texture of its growing parts, these being of a much firmer consistence on the hills than in the neighbourhood of the sea, and more palpably so in dried than in fresh specimens.

7. STEMONURUS, Blume.

Stemonurus (in parte), Miers. *Urandra*, Thw.

1. **S. apicalis,** Thw.—*Urandra apicalis*, Thw. in Hook. Kew Journ. of Bot. vol. vii. (1855) p. 211.—C.P. 2569.

HAB. Damp forests, at an elevation of from 1000 to 2000 feet. Nom. vulg. "Oorookannoo-gass."

Arbor ingens. *Ramuli* teretes, glabri. *Folia* integra, coriacea, oblonga vel obovato-oblonga, abrupte brevi-acuminata, basi angustata, subtus pallidiora, 4–6 poll. longa, 2–3 poll. lata, *petiolo* 5–8 lin. longo. *Pedunculi* axillares, solitarii vel bini, petiolo breviores vel subæquilongi. *Capitula* 7–12-flora. *Flores* hermaphroditi, *petalis* viridibus, basin versus purpurascentibus, circiter 2 lin. longis. *Drupa* oblonga, subacuta, 15 lin. longa, 8 lin. lata, viridi-purpurascens, dimidio apicali albido; *putamine* ligneo, cancellato, externe fasciculato-fibroso. *Embryo* in axi albuminis copiosi, carnosi; *radicula* supera, cylindrica, *cotyledonibus* parvis cordatis æquilonga; *testa* pericarpio consolidata.

When describing this plant, two years ago, under the name of *Urandra apicalis*, I had not the opportunity of referring to Blume's Museum Bot. Ludg. Batav., and took it for granted that Mr. Miers was correct in determining Dr. Wallich's genus *Gomphandra* to be identical with *Stemonurus* of Blume. Now, however, I am satisfied that that learned botanist was in error, and that to *Platea* of Blume is to be referred the genus *Gomphandra*. Blume's definition of *Stemonurus* as "drupa baccata, nucleo fibroso," does not apply to *Gomphandra*, though it does to the species figured in the Mus. Bot. Lugd. Bat., and to the plant now under description. By a strange oversight, Mr. Miers has read my account of the structure of the seed of *Gomphandra polymorpha*, Wight (Hooker's Journal of Bot. vol. vii. p. 211), as if it were that of my *Urandra apicalis*, and has thus been under the erroneous impression (Linnæan Trans. vol. xxii. p. 97 *et seq.*) that the structure is the same in the two plants. It is very different, for in *Stemonurus apicalis* there is no appearance of the longitudinal division of the albumen into two equal parts; the testa is firmly adherent to the pericarp, and the putamen is very peculiar in character, being ligneous, with several longitudinal cavities filled with soft cellular matter, and externally, when the flesh of the

Digitized by Google

drupe has decomposed or been removed, exhibiting a fasciculate-fibrous structure, which in appearance is not very unlike an arillus, but of course essentially very different from one. Mr. Miers is right in saying that *Urandra apicalis* is a *Stemonurus*, and I have now called it so; but it is not so for the reasons he gives, as has been shown above.

8. PLATEA, Blume.

Gomphandra, Wallich, Wight. *Stemonurus* (in parte), Miers.

1. **P. axillaris**, Thw.—*Gomphandra axillaris*, Wall. Cat. n. 3718. *Lasianthera? tetrandra*, Wall. in Roxb. Fl. Ind. ii. p. 328. *Gomphandra polymorpha*, Wight, Illust. i. p. 103; Icones, t. 954. *Stemonurus axillaris*, Miers, in Ann. of Nat. Hist. ser. 2. vol. x. p. 41. *St. polymorphus*, Miers, l. c. p. 37. *St. Ceylanicus*, Miers, l. c. p. 42. *St. Heyneanus*, Miers, l. c. p. 40.—C.P. 251 (762).
HAB. From the level of the sea, up to an elevation of 4000 feet; very abundant.

After reading the description of Dr. Wallich's plant in 'Flora Indica,' cited above, it would seem almost impossible to doubt that this is the species intended by him. It is a very protean one as regards the shape and size of the leaves, and has consequently been overwhelmed with synonyms. I have not the least doubt that those quoted above, if not more, are referable to it in one or other of its forms.

2. **P. coriacea**, Thw.—*Gomphandra coriacea*, Wight, Ill. i. p. 103. *G. polymorpha*, ♂, Wight, Icon. t. 953. *Stemonurus Gardneri*, Miers, l. c. p. 38. *St. Walkeri*, Miers, l. c. p. 43. *Platea Wightiana*, Miers, l. c. p. 111.—C.P. 375.
HAB. Damp forests of the Central Province, at an elevation of 3000 to 6000 feet; not uncommon.

Equally protean, or even more so than the last species, in the size and shape of its leaves, which vary from narrow-lanceolate to orbicular, with a long, narrow acumination. The hairs upon the filaments are very short, and may easily have been overlooked by Dr. Wight's draughtsman; and the petals and stamens of the fertile plant are so very caducous, that it is not surprising to find Blume describing the flowers as having none. The peduncle is at first axillary, but a leaf being most commonly produced upon it at about its middle, its upper part of course appears opposite to this new leaf, and more strikingly so when a leaf-bud has become developed in the axil of the latter.

This species differs most obviously from the last in its coriaceous, opaque leaves, and longer, dichotomous peduncles, and in these latter appearing most commonly opposite to a leaf. *Gomphandra coriacea* of Dr. Wight's 'Illustrations' is, no doubt, the tetramerous form of this.

XXXV. AURANTIACEÆ.

1. ATALANTIA, Corr.

1. **A. monophylla**, DC. (W. et A. Prod. i. 91; Wight, Illust. i. 108.) —C.P. 497 (1198).
HAB. Kornegalle and towards the north of the island, at no great elevation; not uncommon.

Digitized by Google

2. LIMONIA, Lin.

1. **L. alata,** Herb. Madr. (W. et A., l. c. p. 92.)—C.P. 1191.
HAB. Hot, drier parts of the island; common. Nom. vulg. "Toompatkooroondoo-gass."

2. **L. Missionis,** Wall. (W. et A., l. c.)—C.P. 1194.
HAB. Hotter parts of the island. Nom. vulg. "Pambooroo-gass."

3. GLYCOSMIS, Corr.

1. **G. arborea,** DC. (W. et A., l. c. cum syn.)—C.P. 180.
HAB. Abundant in the hot, drier parts of the island. Nom. vulg. "Dodang-paana-gass."

Filamenta dilatata, supra medium latissima, ad apicem angustata. *Ovarium* glandulosum, breve, gynophoro sphæroidali angustius. *Stylus* depressus, brevis, stigmate discoideo distincto æquilatus.

This must certainly be the *Limonia arborea* of Roxburgh (Cor. Plant. t. 85), though the analysis of the flower accompanying his figure expresses far from correctly the character of the species.

2. **G. pentaphylla,** DC. (W. et A., l. c. 93, cum syn.)—C.P. 1192.
HAB. Very common, up to an elevation of 3000 feet.

Filamenta ut in specie præcedenti. *Pistillum,* una cum *gynophoro* mediocri, subcylindricum, truncatum. *Fructus* pulposus.

This is a very variable species as regards the shape and size of its leaves, but may always be distinguished from the preceding by the much smaller panicles and different shape of the pistil and gynophore.

3. **G. bilocularis,** Thw.; *foliis* pinnatis; *foliolis* alternis, brevipetiolulatis, trapezoideo-lanceolatis, apice obtusis; *paniculis* axillaribus, brevissimis, paucifloris; *ovario* biloculari.—C.P. 3362 (olim cum C.P. 1192 mixta).
HAB. Maturatte District, at no great elevation.

Frutex. *Foliola* 1¾–2½ poll. longa, 5–8 lin. lata, subtus pallidiora. *Flores* subsessiles. *Calyx* 5-fidus, segmentis triangularibus. *Petala* 5, albida, minute rufopunctata, oblonga. *Filamenta* alterna breviora, multum et irregulariter dilatata, interne concava. *Pistillum,* una cum *gynophoro,* conicum, truncatum.

This bears a considerable resemblance to some forms of the preceding species, but its two-celled ovary, besides other differences, proves it to be quite distinct. Its technical characters would perhaps bring it within the genus *Sclerostylis,* but its nearest affinity is certainly with the species of *Glycosmis.*

4. MURRAYA, Kœnig.

1. **M. exotica,** Lin.
Var. *α. buxifolia; ramulis* confertis, glabris vel tomentosis; *foliis* subcoriaceis; *calycis* segmentis triangularibus.—*M. exotica,* W. et A., l. c. 94, cum syn.—C.P. 1200.
Var. *β. paniculata; foliis* majoribus, membranaceis, venis subtus prominentibus; *calycis* segmentis oblongis.—*M. paniculata,* W. et A., l. c. cum syn.—C.P. 1199.
HAB. Var. *α* in gardens only. Var. *β* common in the warmer parts of the island, and up to an elevation of 3000 feet. Nom. vulg. "Attaireya-gass."

Digitized by Google

With fresh specimens of these two forms before me, I have been unable to discover anything like a good specific difference between them.

5. SCLEROSTYLIS, Blume.

1. **S. Ceylanica,** Wight, Ill. i. p. 109.—*S. Arnottiana,* Wight, l. c. *Rissoa Ceylanica,* Arn. Pug. p. 6 (324).—C.P. 1196.

HAB. Warmer parts of the island, not uncommon. Nom. vulg. "Yucca-naara-gass."

A very variable species in the size and shape of its leaves, and the number of flowers in the axils. I have always found the flowers tetramerous, and two ovules in each loculus of the ovary.

2. **S. retundifolia,** Thw.; inermis?, *foliis* rotundis vel ovato-rotundis, retusis, coriaceis; *racemis* ad apices ramulorum confertis.—C.P. 3295.

HAB. Maturatte, at an elevation of 4000 feet and upwards; not common.

Arbor parva, ramosissima, glabra. *Folia* ¾–1¾ poll. longa, ½–1½ poll. lata, *petiolo* 1–2 lin. longo. *Racemi* axillares et terminales, solitarii vel 2–3-fasciculati, 5–10-flori, foliis æquilongi. *Flores* tetrameri. *Calyx* profunde 4-fidus, lobis rotundatis. *Ovarium* oblongum, brevi-stipitatum, in *stylum* cylindricum apice compresso-dilatatum margine stigmatosum æquilongum attenuatum; *loculis* 2, biovulatis.

Closely allied to the preceding species, but distinguished at once by the absence (apparently) of spines, and the different shape of the leaves. The calyx is deeply four-lobed, whereas in *S. Ceylanica* it is scarcely more than undulated; the style is also more slender in the present species, and the ovary more decidedly stalked. In both species the latter organ is surrounded at its base by a free, glandular annulus.

6. BERGERA, Kœnig.

1. **B. Kœnigii,** Lin. (W. et A. Prod. i. 94, cum syn.; Wight, Icones, t. 13.)—C.P. 1203, 2547.

HAB. Hot, drier parts of the island; not uncommon. Nom. vulg. "Karapinchee-gass."

The Cinghalese use the leaves of this plant as a seasoning for their curries.

2. **B. nitida,** Thw.; *foliolis* 5–14, oblongis, obtuse acuminatis vel retusis, valde obliquis, obscure crenatis, glabris, nitidis; *ovarii* loculis 2, biovulatis.—C.P. 2421.

HAB. Warmer parts of the island; not very uncommon. Nom. vulg. "Meegong-karapinchee-gass."

Arbor mediocris. *Ramuli* minute pilosi. *Foliola* 1¼–3 poll. longa, ¾–1¼ poll. lata, *petiolulo* puberulo, 1–2 lin. longo. *Paniculi* terminales, puberuli. *Flores* parvi, albidi, pentameri. *Staminum filamenta* medio dilatata; *antheræ* cordato-rotundatæ. *Ovarium* oblongum; *stylo* brevi, cylindrico, deciduo; *stigmate* capitato. *Fructus* sphæricus, pulposus, flavus, 1-spermus, 4–5 lin. in diam.

This species has evidently a near affinity with *Piptostylis Indica,* Dalzell (Hook. Journ. of Bot. vol. iii. p. 33. t. 2), the style being wholly deciduous as in that species, and the loculi of the ovary always two-ovuled; but it differs from it in its very oblique leaves, smaller flowers, capitate stigma, and two-celled ovary. It may be considered doubtful, perhaps, whether it is desirable to retain the genus *Piptostylis* as distinct from *Bergera*. I am able to confirm Mr. Dalzell's observation that the loculi of the ovarium of *B. Kœnigii* are frequently two-ovuled.

7. MICROMELUM, Blume.

1. **M. pubescens,** Blume, Bijd. p. 138?.—C.P. 188.

Digitized by Google

HAB. Very common in the hotter parts of the island, up to an elevation of 2000 feet. Nom. vulg. "Wal-karapinchee-gass."

This is a very variable plant in the size and shape of its leaves, which are always very oblique at the base. The small-leaved state bears very considerable resemblance to *Bergera Kœnigii*. There seems to me to be scarcely sufficient grounds for excluding the present species from the genus *Cookia*.

8. CLAUSENA, Burm.

1. **C. Willdenovii,** W. et A. Prod. i. 96, cum syn.; Wight, Icones, t. 339.—C.P. 1204.

HAB. Hot, drier parts of the island.

Foliorum juniorum rachis, cum foliolorum petiolulis, costulis marginibusque superne puberula.

2. **C. pubescens,** W. et A., l. c.—C.P. 2546.

HAB. Near Hanguranketty, at an elevation of about 3000 feet; not common.

I suspect that this and the preceding will prove to be but varieties of one species, for I can discover no character of any importance to distinguish them except the dense pubescence upon the ramuli and under surface of the leaves of the present one.

9. PARAMIGNYA, Wight.

1. **P. monophylla,** Wight, Illust. p. 108. t. 42.—C.P. 1201, 1202.

HAB. Hot, drier parts of the island, up to an elevation of 2000 feet. Nom. vulg. "Wallangereya."

10. Gen. Nov. ARTHROMISCHUS, Thw.

Calyx brevis, 4-dentatus. *Corollæ* petala 4, oblonga. *Stamina* 8, æqualia; *filamentis* medio dilatatis; *antheris* oblongis. *Ovarium* gynophoro conspicuo suffultum, 4-loculare; *loculis* 1-ovulatis. *Ovula* pendula. *Stylus* longus, cylindricus. *Stigma* dilatatum. *Fructus* 1–4-spermus.

1. **A. armatus,** Thw.—C.P. 1197, 3115.

HAB. Hotter parts of the island, at no great elevation; not common.

Frutex scandens, spinis rectis vel apice curvatis armatus. *Ramuli* glabri vel minute puberuli. *Folia* 1-foliolata, *petiolo* 2–4 lin. longo; *foliolo* ovato- vel oblongo-acuminato, basi rotundato, 1½–3½ poll. longo, 7–15 lin. lato; *petiolulo* 1½ lin. longo. *Fasciculi* axillares, 1–8-flori, *pedicellis* 3–4 lin. longis. *Petala* 2 lin. longa. *Ovarium* subsphæricum, gynophoro rotundato æquilongo subæquilato suffultum. *Fructus* pulposus, rotundatus, flavescens, 4–8 lin. in diam.

This plant differs from *Luvunga* in the greater number of cells to the ovary, and these being one-ovuled; from *Paramignya* its jointed leaf-stalk, small calyx, and one-ovuled loculi distinguish it, whilst from *Atalantia* it is separated by its scandent habit, free filaments, and stalked ovary.

11. LUVUNGA, Ham.

1. **L. scandens,** Ham. (Wight, Illust. i. 108.)—*Limonia scandens*, Roxb. Fl. Ind. ii. 380.—C.P. 1195.

HAB. Central Province, at an elevation of 3000 to 5000 feet.

Digitized by Google

In all the specimens of this plant I have examined, the filaments were free to their very base, even in the unexpanded flowers, and the species appears to be somewhat diœcious, as in some plants the ovaries of all the flowers are entirely without ovules.

If Roxburgh did not make a mistake in his description of this plant, it will be necessary to call the Ceylon *Luvunga* in this 'Enumeration,' *L. eleutherandra*, Dalzell, or what is the *L. Tavoyana*, Wall., referred to by Wight in the Illust. i. p. 108?

2. **L. eleutherandra,** Dalz. Hook. Journ. of Bot. ii. (1850) p. 258; Walp. Ann. ii. p. 184.—C.P. 1195.

HAB. Central Province, at an elevation of 3000 to 5000 feet.

This species would appear to be diœcious, as in some plants the ovaries of all the flowers are entirely without ovules. It varies much in the shape and size of the leaves.

12. FERONIA, Corr.

1. **F. Elephantum,** Corr. (W. et A. Prod. i. 96, cum syn.; Wight, Icones, t. 15.)—C.P. 1205.

HAB. Hot, drier parts of the island, very abundant. Nom. vulg. "Diwool-gass."

XXXVI. HYPERICACEÆ.

1. HYPERICUM, Lin.

1. **H. Mysorense,** Herb. Mad. (W. et A. Prod. i. 99.)—*Norysca Mysorensis*, Wight, Icones, t. 56.—C.P. 48.

HAB. Central Province, at an elevation of 6000 to 8000 feet; not uncommon.

2. **H. Japonicum,** Thunb. (W. et A., l. c. cum syn.)—C.P. 2420.

HAB. Abundant in paddy-fields and other wet places throughout the island.

XXXVII. GUTTIFERÆ.

1. GARCINIA, Lin.

1. **G. Cambogia,** Desrous. (DC. Prod. i. 561, cum syn.; Wight, Illust. i. 125, cum syn.)—*Cambogia Gutta*, Lin. (in parte), et forsan *Garc. Roxburghii*, Wight, l. c. cum syn.—C.P. 1172.

Var. *α*; *fructu maturo* flavo.

Var. *β*; *fructu maturo* rubro.

HAB. Not uncommon up to an elevation of 1500 feet. Nom. vulg. "Goraka-gass."

Florum fasciculi:—MASC. 3–8, pedicellati, *pedicellis* 7–10 lin. longis, apice parce incrassatis. FŒM. 1–2, pedicellati, *pedicellis* 2–5 lin. longis. *Fructus* 2½–3 poll. in diam.

There appears to be in Ceylon but one species of *Garcinia* with sulcated fruit, but in all the figures and descriptions of it I have seen, no notice is taken of a very marked character it has, namely, that the sulci or furrows are not continued to the apex, but terminate at some distance from it, the apex itself being smooth and depressed, and somewhat mamillæform. The gum which exudes from the tree

Digitized by Google

is semitransparent, very adhesive, and is insoluble in water, and therefore quite unsuitable for the purposes of the draughtsman. The Cinghalese dry the acid rinds of the ripe fruit, both the yellow and red varieties, and use them as a condiment for eating with their curries.

2. **G. echinocarpa,** Thw. (Hook. Journ of Bot. vol. vi. (1854) p. 71.)

Var. *α*; *foliis* oblongis vel lanceolatis, acuminatis.—C.P. 2445.

Var. *β*; *foliis* valde coriaceis, obovatis vel oblongis, retusis vel acumine brevi obtuso; *floribus* majoribus.—C.P. 335.

HAB. Var. *α*, in the forests between Ratnapoora and Galle, at no great elevation. Var. *β*, in the Central Province, at an elevation of 4000 to 6000 feet; common. Nom. vulg. "Madol-gass."

Flores terminales, sessiles: MASC. numerosi, aggregati; FŒM. solitarii. *Ovarium* squamis carnosis numerosis imbricatis tectum. *Fructus* subsphæricus, echinulato-muricatus.

A thick oil is extracted from the seeds, which is used by the Cinghalese for burning in their lamps, but it gives a very indifferent light.

3. **G. Morella,** Desrous.—*Hebradendron cambogioides*, Graham, in Hook. Comp. to Bot. Mag. vol. ii. p. 199. t. 27, cum syn. *Garcinia Gutta*, Wight, Illust. i. 126. *Cambogia Gutta*, Linn. Fl. Zeyl. p. 87, in parte.—C.P. 322.

HAB. Warmer parts of the island, up to an elevation of 2000 feet. Nom. vulg. "Gokatoo-gass," "Kana-goraka-gass."

FŒM. *Ovarium* glabrum, apice stigmate sessili imbricatim lobato tectum; basi *staminibus sterilibus* circiter 12, 1-serialibus, basi cohærentibus cinctum; *antheris* effœtis, subquadratis, apice emarginatis.

This is the only species growing in Ceylon from which gamboge is obtainable, and as the tree is not uncommon, the pigment might be collected in considerable quantities.

2. TERPNOPHYLLUM, Thw.

Hook. Journ. of Bot. vol. vi. (1854) p. 70.

? *Discostigma*, Hassk. (Endl. Gen. Plant. Suppl. iii. p. 95.)

Flores dioici. *Calyx* 4-phyllus, deciduus. MASC. *Stamina* plurima in discum mamillatum 2- vel 4-lobatum subtus petalis adhærentem coalita; mamillis singulis, *antheras* 2–4, loculis horizontalibus subimmersis gerentibus; *ovarii rudimento* minuto. FŒM. *Ovarium* biloculare, *staminibus sterilibus* paucis squamæformibus cinctum.

1. **T. Zeylanicum,** Thw. l. c. t. 2.

Var. *α*. *lanceolatum*; *foliis* lanceolatis; *disco stamineo* 2-lobato, *lobis* bifidis, medio sulcatis.—C.P. 2695.

Var. *β*. *acuminatum*; *foliis* lanceolatis, obtuse rostrato-acuminatis; *disco stamineo* 4-lobato.—C.P. 3400.

HAB. Var. *α*, Central Province, at an elevation of 2000 to 4000 feet. Var. *β*, in forests between Ratnapoora and Galle, at no great elevation.

The *Garcinia Merguensis*, Wight, Icones, t. 116, will probably prove to be a species of this genus.

3. XANTHOCHYMUS, Roxb.

1. **X. ovalifolius,** Roxb. Fl. Ind. ii. p. 632; W. et A. Prod. i. 102 (excl. syn. a Burm. Fl. Ind. et Fl. Zeyl.).—? *X. spicatus*, W. et A., l. c.

Digitized by Google

Var. *a*; *foliis* ovatis, apice rotundatis vel retusis.—C.P. 1173.

Var. *β*; *foliis* lanceolatis vel ovato-lanceolatis, plus minus acuminatis. —C.P. 731 (743, 755).

HAB. Var. *a*, hot, drier parts of the island. Var. *β*, Central Province, up to an elevation of 3000 feet; abundant. Nom. vulg. "Ella-gokatoo-gass."

A most variable species, both as to the shape of the leaves and length of the peduncles and pedicels. Although the extreme forms of vars. *a* and *β* look very dissimilar, I am unable to find any constant character by which to separate them. A tenacious gummy matter exudes from the trunk, but it is of no value.

4. MESUA, Linn.

1. **M. ferrea,** Linn. Sp. 734; DC. Prod. i. 562; Wight, Ill. i. 127; Icones, t. 118.—*M. Nagaha*, Gard. in Calc. Journ. of Nat. Hist. vol. viii. p. 4. *Arbor Naghas,* Burm. Zeyl. p. 25. *Mesua foliis lanceolatis, etc.*, Fl. Zeyl. n. 203. *Nagassarium,* Rumph. Amb. vii. 3. t. 2. —C.P. 602.

Var. *a*; *foliis* lanceolatis, acuminatis.

Var. *β*; *foliis* lineari-lanceolatis.

HAB. Vars. *a* and *β*, common about Galagama, especially the latter. Var. *a* occurs very commonly in the neighbourhood of temples as one of the favourite trees planted for ornament. Nom. vulg. "Nā-gass."

Dr. Gardner has given, in the work quoted above, a very full description of the ordinary form of this species. The natives express an oil from the seeds for burning. The wood is very hard and durable.

2. **M. speciosa,** Chois. in DC. Prodr. i. 562; Rheede, Hort. Malab. iii. 63. t. 53. ? Wight, Icones, t. 961.—C.P. 2675.

Var. *β*; foliis multo minoribus.—C.P. 603.

HAB. Banks of streams, in the Ratnapoora District. Nom. vulg. "Deya-nā-gass."

The figure in Hort. Mal., quoted above, and from which M. Choisy appears to have derived his character of the species, is a very fair representation of the usual form of this plant, which differs from the preceding in its much larger leaves, most commonly rounded at the base, its sessile or subsessile flowers, and larger fruit.

3. **M. Coromandelina,** Wight, Icones, t. 117; Illust. i. 127.—C.P. 3404.

HAB. Forests between Galle and Ratnapoora, at no great elevation.

Dr. Wight's figure in the 'Icones' well represents this plant, which is distinguished from *M. ferrea* by its more suddenly acuminated leaves, their base more rounded, and in these being without the white coating on the under side, so conspicuous in the other two species, and in its much smaller flowers on longer pedicels.

5. KAYEA, Wall.

Capsula rotundata, coriacea, irregulariter fissa, 1–4-sperma, *calyce* multum aucto coriaceo inclusa. *Semina cotyledonibus* distinctis, carnosis; *testa* membranacea, colorata.

1. **K. stylosa,** Thw; *foliis* ovato-lanceolatis, acuminatis.—C.P. 2708.

HAB. South of the island, at no great elevation. Nom. vulg. "Soovanda-gass."

Digitized by Google

Arbor magna. *Ramuli* teretes, glabri, rufescentes. *Folia* 2–3 poll. longa, 7–10 lin. lata, subtus minutissime reticulata, *petiolo* 2–3 lin. longo. *Stylus staminibus* numerosis multum longior.

This differs from *Kayea floribunda* of Wallich's Pl. Asiat. Rarior. vol. iii. p. 5. t. 210, in its much smaller and differently-shaped leaves, and long, protruded style. The flowers are very fragrant. The timber is useful for building purposes.

6. CALOPHYLLUM, Linn.

Nom. vulg. "Keena-gass," "Walloo-keena-gass."

Sect. 1. *Sepala* 4. *Petala* 8.

1. **C. Walkerii,** Wight, Illust. i. 128. t. 45.—C.P. 1170.

HAB. Newera Ellia, Adam's Peak, and other of the most elevated parts of the island.

An oil is extracted from the seeds of this and the other species of the genus, which is used for burning.

Sect. 2. *Sepala* 4. *Petala* 4.

† *Racemi folia æquantes vel longiores.*

2. **C. decipiens,** Wight, Illust. i. 128; Icones, t. 106.—C.P. 3403.

Var. *a*; *foliis* obovato-oblongis, basi rotundatis.

Var. *β*; *foliis* cordato-orbiculatis.

HAB. Var. *a*, Ambagamowa District. Var. *β*, Hinidoon Corle, at an elevation of 1000 to 2000 feet.

The leaves of this plant vary much in shape, and the foliage often strongly resembles that of the preceding. In very young plants (C.P. 3401) of what I believe to be this species, the leaves are lanceolate or cordate-lanceolate.

3. **C. trapezifolium,** Thw.; *foliis* coriaceis, parvis, ovato-trapezoideis, obtuse et breve acuminatis vel retusis; *racemis* folio multum longioribus; *floribus* majusculis.—C.P. 2446.

HAB. Hunasgiria District, in the Central Province, at an elevation of 4000 to 5000 feet.

Arbor magna. *Ramuli* glabri. *Folia* 1½–2 poll. longa, 7–11 lin. lata, *petiolo* 3–4 lin. longo. *Fructus* subsphæricus, 8 lin. longus, 7 lin. latus.

4. **C. cuneifolium,** Thw; *foliis* parvis, cuneato-spathulatis, obtuse brevi-acuminatis vel retusis, coriaceis.—C.P. 2917.

HAB. Madamahanewera, at an elevation of 3000 to 4000 feet.

Arbor magna. *Ramuli* glabri. *Folia* 1¼–1¾ poll. longa, 5–9 lin. lata, *petiolo* 3–4 lin. longo. *Flores* mediocres. *Fructus* sphæricus, 8 lin. in diam.

†† *Racemi foliis breviores.*

5. **C. Inophyllum,** Linn. (W. et A. Prod. i. 103; Wight, Illust. i. 128; Icones, t. 77.)—C.P. 2764.

HAB. Hotter parts of the island, up to an elevation of 2000 feet. Nom. vulg. "Domba-gass."

6. **C. tomentosum,** Wight, Illust. i. 128; Icones, t. 110.—C.P. 1171.

HAB. Central Province, at an elevation of 3000 to 5000 feet; common.

The timber of this abundant tree is valued for building purposes, and the seeds are collected in considerable quantities for the sake of the oil they contain, which is called "Keena-tel."

7. **C. bracteatum,** Thw.; *foliis* lanceolatis, acuminatis, a medio

Digitized by Google

versus basin subrotundatam sensim angustatis; *racemis* conspicue bracteatis, tomentosis.—C.P. 2674.

HAB. Saffragam District, by the sides of streams, at no great elevation.

Arbor ingens. *Ramuli* quadranguli, penduli, tomento ferrugineo caduco vestiti. *Folia* 3½–8 poll. longa, 1–2¼ lata; *petiolo* 2–4 lin. longo; *juniora* tomento fugaci pilosa. *Racemi* foliis multo breviores, 4–8-flori. *Pedicelli* basi 1-bracteati, *bracteis* oblongis, tomentosis, 2–3 lin. longis. *Flores* 4 lin. in expans. *Fructus* immaturus oblongus.

The bracteated racemes, much smaller flowers, and oblong fruit, abundantly distinguish this from the preceding species.

Sect. 3. *Sepala* 4. *Petala* 0.

Apoterium, Blume, Bijdr. p. 218.

8. **C. Moonii,** Wight, Illust. i. 129; Icones, t. 111.—C.P. 3402.

HAB. Forests in the district between Galle and Ratnapoora; not uncommon. Nom. vulg. "Domba-keena-gass."

Arbor magna. *Ramuli* juniores tomento ferrugineo fugaci vestiti. *Fructus* sphæricus.

9. **C. Burmanni,** Wight, Illust. i. 129; Icones, t. 107, 108; Burm. Fl. Zeyl. t. 60.—C.P. 242, 2447.

HAB. Hotter parts of the island, at no great elevation.

Fructus subsphæricus, rufo-brunneus, ½ poll. in diam.

XXXVIII. HIPPOCRATEACEÆ.

1. HIPPOCRATEA, Linn.

1. **H. Indica,** Willd. (W. et A. Prod. i. 104, cum syn.)—C.P. 1164.

HAB. Hot, drier parts of the island; not uncommon.

2. **H. obtusifolia,** Roxb. (W. et A., l. c. cum syn.; Wight, Icon. t. 963.)—C.P. 3158.

HAB. South of the island. Nom. vulg. "Deyakirindi-wel."

2. KOKOONA, Thw.

Hook. Journ. of Bot. vol. v. (1853) p. 379.

Stamina 5, *petalis* alterna; *filamentis* subulatis, *disco* magno annulari expanso singulatim insertis. *Ovarium* semi-immersum, 3-loculare; *loculis* 4–12-ovulatis. *Ovula* erecta. *Capsula* triangularis, loculicide dehiscens, *valvis* 3, lignosis. *Semina* imbricata, longe alata.

1. **K. Zeylanica,** Thw. l. c. t. 6.—C.P. 2584.

HAB. Not uncommon on the banks of streams in the Saffragam and Ambagamowa Districts, at an elevation of 2000 to 4000 feet. Nom. vulg. "Kokoon-gass."

The inner yellow bark of this tree is employed by the natives medicinally as a sternutatory, and an oil is expressed from the seeds, which is used for burning in lamps.

Digitized by Google

3. SALACIA, Linn.

1. **S. oblonga,** Wall. (W. et A. Prod. i. 106, cum syn.; Wight, Icones, t. 97; Illust. t. 47 *B.*)—C.P. 1061, 3148.
HAB. Common in the hot, drier parts of the island.

2. **S. reticulata,** Wight, Illust. i. 134.—C.P. 658.
HAB. Central Province, at an elevation of 1000 to 3000 feet. Nom. vulg. "Himbootoo-wel."

The natives eat the pulp of the ripe, rather large, spherical fruit.

3. **S. prinoides,** DC. (W. et A. Prod. i. 105; Wight, Icones, t. 321.)—C.P. 1165.
HAB. Central Province, up to an elevation of 2000 feet. Nom. vulg. "Heen-himbootoo-wel."

4. **S. diandra,** Thw.; *foliis* integris, ovatis, obtuse acuminatis, basi angustatis, brevi-petiolatis, subtus nitidis, delicatule reticulatis; *floribus* tetrameris, diandris.—C.P. 2720.
HAB. Central Province and Saffragam District, up to an elevation of 2000 feet; not common.

Frutex scandens, siccitate nigrescens. *Folia* 2–4½ poll. longa, 1–1¾ lata; *petiolo* 1–2 lin. longo. *Flores* axillares, solitarii; *pedicello* petiolo æquilongo. *Petala* rotundata, unguiculata, in anthesi horizontalia, lateribus reflexis; *calycis segmentis* triangularibus multo longioribus. *Staminum filamenta* brevia; *antheræ* extrorsæ, loculis subsphæricis, horizontaliter dehiscentibus. *Ovarium* biloculare, loculis bi-ovulatis.

XXXIX. MALPIGHIACEÆ.

1. HIPTAGE, Gærtn.

1. **H. Madablota,** Gærtn. (W. et A. Prod. i. 107, cum syn.; Wight, Illust. i. 139. t. 50.)—C.P. 659.
HAB. Common up to an elevation of 3000 feet.

2. **H. parvifolia,** W. et A., l. c.—C.P. 1166, 1167.
HAB. Hot, drier parts of the island, *Gardner.*

Platynema laurifolium, W. et A., described as from Ceylon, is probably cultivated there only. Specimens in Hook. Herb. are from Sincapore, but it may not be wild there.

XL. ERYTHROXYLEÆ.

1. SETHIA, Kunth.

1. **S. Indica,** DC. (W. et A. Prod. i. 106, cum syn.; Wight, Illust. i. 136. t. 48.)—C.P. 1168.
HAB. Hot, drier parts of the island.

Mr. Ondaatze informs me that an empyreumatic oil or wood-tar, used for preserving the wood employed in the construction of native boats, is obtained from the wood of this tree.

Digitized by Google

2. **S. lanceolata,** Wight, Illust. i. 136; *foliis* lanceolatis vel lineari-lanceolatis, obtusis.—C.P. 493.

Hab. On the banks of streams, Galagama, at an elevation of 2000 to 3000 feet.

Frutex erectus, ramosus. *Folia* 2–3½ poll. longa, ½–1 poll. lata; *petiolo* 1½–2½ lin. longo.

This is, as truly observed by Dr. Wight, very closely allied to the next species; but, in addition to the difference in their shape, the under side of the leaves of the present plant is less shining, and the large areolæ formed by the inosculation of the primary veins approach nearer to the margin than they do in *S. obtusifolia*. If these are, as Dr. Wight suggests, to be considered only varieties of one species, *S. acuminata* would also have to be joined with them, and perhaps this would best express their real character, though I can hardly venture to unite them without further investigation.

3. **S. obtusifolia**; *foliis* ovato-lanceolatis, ellipticis vel obovatis, apice obtuse brevi-acuminatis vel rotundatis, basi plus minus angustatis vel rotundatis.

a. *stylosa; staminibus* alternis longioribus, *stylo* brevioribus.—*S. lanceolata*, var. β *obtusifolia*, Wight, Illust. i. 136.—C.P. 2613.

b. *staminea; staminibus* æqualibus, *stylo* longioribus.—*S. erythroxyloides*, Wight, l. c.—C.P. 25.

Hab. Central Province, at an elevation of 2000 to 4000 feet.

Folia 1½–3½ poll. longa, ¾–1¾ lata; *petiolo* 2–3½ lin. longo.

Until I found the same peculiarity existing in the next species, I considered, with Dr. Wight, that the different states indicated above under the letters *a* and *b* were distinct species: I am now disposed to look upon them rather as the foreshadowing of a dioicous character, though fruit is produced apparently in equal abundance upon the plants of either state.

4. **S. acuminata,** Arn. Pug. p. 6 (324); Wight, Illust. i. 135.—*Erythroxylon lucidum*, Moon's Cat.—C.P. 222.

Var. β; *foliis* minoribus, longius acuminatis; *petiolo* breviori.—C.P. 3488.

a. *stylosa; staminibus* alternis longioribus, *stylo* brevioribus.

b. *staminea; staminibus* æqualibus, *stylo* longioribus.

Hab. Ambagamowa and Saffragam Districts, at an elevation of 1000 to 2000 feet. Nom. vulg. "Batta-kerilla-gass."

The smaller and much acuminated leaves, and the more acute segments of the calyx, seem alone to distinguish this from the preceding species.

The Cinghalese attach much value to this plant as an anthelmintic for children, giving the juice expressed from the fresh leaves.

XLI. SAPINDACEÆ.

1. CARDIOSPERMUM, Linn.

1. **C. Halicacabum,** Linn. (W. et A. Prod. i. 109, cum syn.)—C.P. 2958.

Hab. Very abundant in the warmer parts of the island. Nom. vulg. "Painaira-wel."

It is probable that *C. canescens*, Wall., occurs also in the island, but I have never yet met with it.

Digitized by Google

2. SCHMIDELIA, Lin.

1. **S. Cobbe,** DC. Prod. i. 610, cum syn.; Wight, Icon. t. 964, 2; W. et A. Prod. i. 110, cum syn.—C.P. 1156.

HAB. Very abundant up to an elevation of 3000 feet. Nom. vulg. "Cobbai-gass."

2. **S. villosa,** Wight, Icon. t. 401.—? *S. Rheedii,* Wight, Ic. t. 964.—C.P. 3549.

HAB. Central Province, at an elevation of 3000 to 5000 feet.

I suspect that this will prove to be but a variety of the preceding species, from which it seems scarcely to differ except in being much more hairy.

3. **S. allophylla,** DC. Prod. i. 611, cum syn.; *foliis* lanceolatis vel ovato-lanceolatis, acuminatis, glabris, integris vel versus apicem grosse dentatis, basi angustatis.

Var. *α*; *racemis* brevibus, hispidis; *bracteolis* confertis.—C.P. 2679. *S. allophylla,* Arn. Pug. 8 (326).

Var. *β*; *racemis* elongatis, minute pilosis, florum fasciculis sparsis; *bracteolis* inconspicuis.—C.P. 562.

HAB. Var. *α*, Ambagamowa and Hinidoon Districts, up to an elevation of 3000 feet. Var. *β*, Central Province, at an elevation of 2000 to 5000 feet.

Arbor parva. *Folia* 4–10 poll. longa, 1½–3½ poll. lata; *petiolo* ½–1 poll. longo. *Flores* parvi; *petalis* longe unguiculatis; *squamulis* villosis, lamina æquilongis. *Baccæ* rotundatæ, rubræ.

4. **S. hispida,** Thw.; *ramulis* hispidis; *foliis* lanceolatis, acuminatis, basi rotundatis vel parce angustatis, glabris, margine costa venis primariisque utrinque cum *petiolo* longo hispidis; *racemis* brevissimis; *floribus* confertis.—C.P. 3294.

HAB. Ambagamowa District, at an elevation of 1000 to 2000 feet.

Arbor parva. *Folia* 5–14 poll. longa, 2–5 poll. lata; *petiolo* ¾–2 poll. longo. *Petala* unguiculata; *squamulis* longe villosis, lamina brevioribus.

5. **S. acuminata,** Thw.; *foliis* ovatis, obtuse rostrato-acuminatis, glabris; *racemis* elongatulis, subglabris, sparsifloris.—C.P. 3001.

HAB. Galagama, on the banks of streams, at an elevation of 2000 to 3000 feet.

Arbor parva. *Ramuli* teretes, glabri. *Folia* 2½–4½ poll. longa, 1–2 poll. lata; *petiolo* 4–7 lin. longo. *Petalorum squamulæ* densissime villosæ, lamina æquilongæ.

3. SAPINDUS, Linn.

1. **S. laurifolius,** Vahl, (Wight et Arn. Prod. i. 111, cum syn.)—C.P. 2545.

HAB. Southern and central parts of the island, up to an elevation of 3000 feet.

The specimens in this Herbarium have the leaves tomentose underneath, and the petals, which are hairy over their entire inner surface, have two hairy glandular appendages, as in the following species.

2. **S. emarginatus,** Vahl, (W. et A., l. c. cum syn.; Wight, Illust. i. 141. t. 51.)—C.P. 1151.

HAB. Hot, drier parts of the island. Nom. vulg. "Penella-gass."

My specimens have the under side of the leaves quite glabrous, so that it would

Digitized by Google

appear that this and the foregoing species vary in having their leaves either glabrous or hairy beneath.

3. **S. unijugus,** Thw.; *foliis* bifoliolatis, glabris; *petiolo* tereti, basi tumido; *foliolis* lanceolatis, reticulatis, obtuse acuminatis, brevi-petiolulatis; *racemis* simplicibus vel ramosis, subterminalibus, oppositifoliis, minute pilosis.—C.P. 2465.

HAB. Hewahette District, at an elevation of 3000 to 4000 feet.

Arbor magna. *Folia* siccitate nigrescentia; *petiolo* 7–12 lin. longo; *foliolis* 3–5 poll. longis, 1¼–2 poll. latis; *petiolulo* tumido 2–3 lin. longo. *Calycis segmenta* acuta. *Stamina* 8. *Ovarium* hirsutulum, 3-loculare; *stigmate* sessili, 3-radiato. *Bacca* 1–3-sperma, ¾–1½ poll. in diam., subrotundata.

The specimens I have obtained of this plant do not enable me to give so full a description of the flower and fruit as I could wish. In appearance it a good deal resembles *Nephelium bifoliolatum* of this work, but the structure of the fruit is very different.

4. HEMIGYROSA, Blume.

Rumphia, vol. iii. p. 165. Walpers, Ann. vol. ii. p. 212.

1. **H. trichocarpa,** Thw.; *foliis* abrupte pinnatis, subglabris; *foliolis* suboppositis, 2–4-jugis, lanceolatis, acuminatis, integris; *racemis* tomentosis, plus minus ramosis; *bracteolis* subulatis, curvatis, *pedicellis* longioribus.

Var. β; *foliis* minoribus, angustioribus.—C.P. 607.

HAB. Var. α, Central Province, up to an elevation of 3000 feet. Var. β, hot, drier parts of the island.

Arbor mediocris. *Petala* 4 (uno deficiente). *Ovarium* hirsutum, trigonum; *stylo* brevi. *Fructus* hirsutus, indehiscens, trigonus, trilocularis; *pericarpio* sublignoso, interne piloso. *Semina* oblonga; *testa* membranacea; *cotyledonibus* carnosis, æqualibus, incumbentibus; *radicula* parva, ab hilo distante.

2. **H. canescens,** Thw.—*Cupania canescens*, W. et A. Prod. i. 113. *Molinæa canescens*, Roxb. Cor. i. 43. t. 60; *foliis* ovato-lanceolatis, glabris, subtus fuscescentibus; *racemis* plus minus ramosis, minute tomentosis; *bracteolis* minutis, triangularibus, *pedicellis* brevioribus. —C.P. 3508.

HAB. Lower Badulla Road from Kandy, at no great elevation.

This plant is so closely allied to the preceding that I suspect there must be some mistake in its having been described with dehiscent fruit and arillate seeds. The apparent arillus in Roxburgh's figure is, I believe, the hairy coating of the inside of the pericarp. The fruit in my specimens is very immature. I find the fifth (small) petal sometimes present, as figured by Roxburgh.

5. HARPULLIA, Roxb.

Otonychium, Blume. *Streptostigma*, Thw.

1. **H. imbricata.**—*Otonychium imbricatum*, Bl. Rumphia, iii. 180; Walpers, Ann. ii. 213. *Streptostigma viridiflorum*, Thw. in Hook. Journ. of Bot. vol. vi. (1854) p. 298. t. 9 *A*. ? *Harpullia cupanioides*, Roxb. Fl. Ind. ii. p. 442.—C.P. 605, 736.

HAB. Central Province; not uncommon, up to an elevation of 3000 feet.

This must be closely allied to, if not identical with, Roxburgh's *Harpullia cupanioides*, but, if that eminent botanist's description be correct, the Ceylon plant

Digitized by Google

differs from his in having most frequently two instead of one seed in each loculus of the seed-vessel; the seeds of a different colour and shape, and with an aril very minute, instead of reaching nearly to their apex: the position of the radicle would also appear to be different. The peculiar twisted character of the stigma, so evident in the Ceylon plant, would scarcely have been left unnoticed by Roxburgh and Wallich had it been present in the species described by them, which on the other hand is said to have a bifid style.

6. NEPHELIUM, Linn.

† *Petala appendiculata.*

1. **N. erectum,** Thw.; *foliis* majusculis, abrupte pinnatis; *foliolis* 3–4-jugis, suboppositis, lanceolatis, acuminatis, integris, glabris, reticulatis; *paniculis* terminalibus, multifloris, foliis multo brevioribus; *fructibus* 1–3- raro 4-lobis, minute tomentosis, lobis oblongis.—C.P. 1150 (in parte).

HAB. Central Province, up to an elevation of 3000 feet.

Frutex erectus, non vel parce ramosus, 6–10-pedalis. *Foliorum rachis* striata, 10–14 poll. longa; *foliolis* 6–10 poll. longis, 2–3½ latis, brevi-petiolatis. *Flores* 5-meri. *Calycis segmenta* rotundata. *Petala* late unguiculata, medio squamata; *lamina* rotundata, reflexa, lævi, margine involuta; *squama* erecta, bifida, villosa. *Discus* annuliformis, lævis. *Stamina* 8. *Stylus* brevissimus. *Stigma* minutum, 3-lobum. *Fructus* carnosus, luteus; *lobis* circiter 1 poll. longis. *Semina* ovoidea, *arillo* carnoso hyalino integro inclusa; *testa* membranacea, rufa; *cotyledonibus* crassis, incumbentibus.

2. **N. simplicifolium,** Thw.; *foliis* integris, cuneato-lanceolatis, acuminatis, lævibus, membranaceis, reticulatis; *paniculis* brevibus, subterminalibus, minutissime tomentosis.—C.P. 443.

HAB. South of the island, at no great elevation; rare.

Frutex erectus, 6–10-pedalis, parce ramosus. *Folia* 8–12 poll. longa, 2½–4 poll. lata; *petiolo* ½–2 poll. longo. *Flores* 5-meri. *Calycis segmenta* rotundata. *Petala* exunguiculata, rotundata, ciliata, basi *squamula* parva villosa munita. *Discus* regularis, lævis. *Stamina* 8, *ovarii* rudimentum 3-lobatum cingentia.

Until the fruit of this species is known, there must remain some little doubt as to whether it is a true *Nephelium*. I have as yet seen only very young male flowers of it.

3. **N. bifoliolatum,** Thw.; *foliolis* unijugis, integris, lanceolatis, obtusiusculis, basi angustatis, glabris; *paniculis* terminalibus, foliis æquilongis vel longioribus.—C.P. 1721.

HAB. Lower Badulla Road from Kandy, at no great elevation. (Flor. Aprili.)

Arbor mediocris, 20–30-pedalis, ramosissima. *Foliola* superne nitida, reticulata, subtus opaca, fuscescentia, 3–5 poll. longa, ¾–1¼ poll. lata, *petiolulo* 2–3 lin. longo, *petiolum* ½–1 poll. longum terminalatia. *Paniculæ* pilosulæ. *Flores* 5-meri. *Calycis segmenta* rotundata, glabra, ciliata. *Petala* parce longiora, oblonga, glabra, ciliata, abrupte brevi-unguiculata, basi *squamula* parva rotundata longe ciliata munita. *Discus* carnosus, crenulatus. *Stamina* sæpissime 7: *masc. filamentis* linearibus, *petala* æquantibus, basi pilosis; *fæm.* brevibus, *ovarium* glabrum bilobum cingentibus. *Stylus* linearis. *Stigma* minutum, obscure bilobum.

4. **N. eximium.**—*Eccremanthus eximius,* Thw. in Hook. Journ. of Bot. vii. p. 272. t. 9; *foliis* magnis, abrupte pinnatis, subsessilibus; *foliolis* 5–13-jugis, oblongo-lanceolatis, serratis, subsessilibus, subtus hirsutulis, pare inferiore minore, obliquo, curvato, sæpe deciduo; *pani-*

culis tomentosis, ramis elongatis, pendulis, multifloris, cylindricis; *floribus* minutis.—C.P. 1153.

HAB. Central Province, at an elevation of 1000 to 2000 feet. (Flor. Maio; fruct. Julio.)

Arbor magna, 40–60-pedalis. *Ramuli* juniores rufo-hirsuti. *Flores* 5-meri. *Calycis segmenta* brevia, subacuta. *Petala* minuta, transverse oblonga, exunguiculata, *squama* adnata subæquilonga margine dense villosa munita. *Discus* carnosus, rufescens. *Stamina* 5, *petalis* multo longiora. *Ovarium* bilobum, hirsutulum; *stylo* lineari; *stigmate* minuto, bilobo. *Fructus* carnosus, subglaber, sæpissime 1-lobus. *Semen* oblongum, *arillo* hyalino fere tectum, hilo magno obliquo; *testa* rufa.

†† *Petala exappendiculata.*

5. **N. Longanum,** Camb. (W. et A. Prod. i. 113, cum syn.)—*N. Mora*, Gardner, MSS. *Dimocarpus pupilla*, Moon's Cat. p. 31.—C.P. 1152.

HAB. Abundant up to an elevation of 2000 feet. Nom. vulg. "Mora-gass."

Ramuli, cum partibus aliis junioribus, tomento stellari rufescente vestiti. *Fructus* immaturus tuberculatus, stellari-tomentosus, demum glaber, lævis; *arillo* plus minus copioso.

The Cinghalese eat the fleshy aril of the fruit of this tree, and the wood is useful for building purposes.

6. **N. Gardneri,** Thw.; *foliis* abrupte pinnatis, subglabris; *foliolis* 2–3-jugis, lanceolatis, grosse et obtuse dentatis, brevi-petiolulatis, subtus glaucis.—C.P. 1154.

HAB. Putlam, *Gardner*.

Præcedenti valde similis affinisque, sed foliis dentatis, sepalis petalisque acutioribus, et pubescentia vix stellari satis distincta videtur.

††† *Petala nulla.*

7. **N. fuscatum,** Thw.; *foliis* abrupte pinnatis, glabris; *foliolis* 2-jugis, lanceolatis, obtusis vel retusis, basi cuneatis, reticulatis, brevi-petiolulatis; *racemis* terminalibus, minute fusco-pilosis, ramosis; *ramis* densifloris, spicæformibus.—C.P. 2577.

HAB. Putlam, *Gardner*.

Foliola 3–4 poll. longa, ¾–1¼ poll. lata. *Flores* minuti. *Calycis segmenta* acuta. *Discus* complanatus, crenatus. *Stamina* 8–10, glabra.

I have not seen the fertile flowers or fruit of this plant.

7. SCHLEICHERA, Willd.

1. **S. trijuga,** Willd. (W. et A. Prod. i. 114, cum syn.)—C.P. 1155.

HAB. Common in the warmer parts of the island, up to an elevation of 2000 feet. Nom. vulg. "Cōng-gass."

The Cinghalese express an oil from the seeds of this tree, which they use for burning, and a considerable quantity of lac is often produced upon the young branches.

8. PTERIDOPHYLLUM, Thw.

Hook. Journ. of Bot. vol. vi. (1854) p. 65.

Flores polygamo-monoici. *Stamina* 5, *disco* intus complānato crenato inserta. *Ovarium* rotundatum, biloculare. *Ovula* in loculis solitaria,

Digitized by Google

pendula, anatropa. *Stylus* linearis. *Stigma* minutum, bilobum. *Fructus* drupaceus, sæpissime 1-spermus; *putamine* membranaceo. *Semen* exarillatum; *testa* membranacea; *cotyledonibus* foliaceis, plicatis; *radicula* dorsali, hilo fere attingente.

1. **P. decipiens,** Thw. l. c. t. 1 *B.*—*Rhus decipiens,* W. et A. Prod. i. 172; Wight, Illust. i. 186. t. 75.—C.P. 536.
HAB. Central Province, up to an elevation of 3000 feet. Nom. vulg. "Pehimbia-gass." (Flor. Jan.; fruct. Mar.)

The wood of this very ornamental tree is useful for building purposes.

9. DODONÆA, Linn.

1. **D. Burmanniana,** DC. (W. et A. Prod. i. 114, cum syn.; Wight, Illust. i. 142. t. 52.)—C.P. 1158.
HAB. Central Province, up to an elevation of 7000 feet. Nom. vulg. "Attawarella-gass."

10. MELIOSMA, Blume.

Millingtonia, Roxb., W. et A.

1. **M. pungens,** Walp. Rep. i. 423.—*Millingtonia pungens,* Wall.; W. et A. Prod. i. 115, cum syn.; Wight, Icones, t. 964/3.—C.P. 300 (580).
HAB. Central Province, at an elevation of 5000 to 7000 feet.

Folia subintegra vel distanter serrulata, superne, costa venis primariisque exceptis, glabra (juniora sparse pilosa), subtus plus minus hirsuta.

2. **M. simplicifolia,** Walp. l. c.—*Millingtonia simplicifolia,* Roxb.; W. et A., l. c. cum syn.—C.P. 703.
HAB. Abundant up to an elevation of 3000 feet. Nom. vulg. "Albadda-gass," "Rawaniddala-gass."

3. **M. Arnottiana,** Walp. l. c.—*Millingtonia Arnottiana,* Wight, Illust. i. 144. t. 53.—C.P. 293.
HAB. Central Province, at an elevation of 4000 to 7000 feet.

XLII. MELIACEÆ.

1. MUNRONIA, Wight.

1. **M. pumila,** Wight, Icones, t. 91.—C.P. 177.
HAB. Not uncommon in the warmer parts of the island. Nom. vulg. "Bin-kohōmba-gass."

This is much valued by the Cinghalese as a medicinal plant.

2. MELIA, Linn.

1. **M. composita,** Willd. (W. et A. Prod. i. 117, cum syn.)—C.P. 699.
HAB. South of the island. Nom. vulg. "Loonoomidella-gass."

3. AZADIRACHTA, Adr. Juss.

1. **A. Indica,** Adr. Juss. (W. et A., l. c. 118, cum syn.; Wight, Icon. 396.)—C.P. 1159.

Digitized by Google

HAB. Hot, drier parts of the island, at no great elevation. Nom. vulg. "Kohōmba-gass."

The juice of the leaves of this plant is employed as an anthelmintic for cattle.

4. MALLEA, Adr. Juss.

1. **M. Rothii,** Adr. Juss. (W. et A., l. c. cum syn.)—C.P. 496.
HAB. Very abundant, up to an elevation of 2000 feet.

5. MILNEA, Roxb.

1. **M. Roxburghiana,** W. et A. Prod. i. 119; Wight, Icon. t. 166. —C.P. 1148.
HAB. Common in the Central Province, up to an elevation of 3000 feet.

This and the next species are polygamo-dioicous, the barren flowers being smaller and in larger panicles than the fertile ones.

2. **M. apiocarpa,** Thw.; *foliis* imparipinnatis, *foliolis* 5–9, ovatis, obtuse acuminatis, basi cuneatis; *junioribus* subtus spadiceo-furfuraceis; *floribus* pedicellis brevioribus; *fructibus* pyriformibus.—C.P. 405, 2448.
HAB. Central Province, at an elevation of 3000 to 6000 feet.

Arbor parva. *Ramuli juniores* spadiceo-furfuracei. *Petala* externe furfuracea. *Cotyledones* singulæ in duas partes plus minus inæquales fere ad basin divisæ.

Closely allied to the preceding, but differing in its larger and more furfuraceous leaves and flowers. In the present species the flowers are shorter than their pedicels, whereas in *M. Roxburghiana* they are longer.

6. AMOORA, Roxb.

1. **A. Rohituka,** W. et A. Prod. i. 119—C.P. 558, 2479.
HAB. Central Province, up to an elevation of 3000 feet. Nom. vulg. "Hingool-gass."

Fructus subglobosus, rufescens, 1–1½ poll. in diam., basi parum attenuatus. *Semina* oblonga, brunnea, *arillo* coccineo vestita.

7. DYSOXYLON, Blume.

1. **D. macrocarpum,** Blume, Bijdr. p. 175.—*Guarea binectarifera,* Roxb. Cat. ? *Amoora ficiformis,* Wight, Illust. i. 147.—C.P. 2637 (1150 in parte).
Var. β; *foliis* minoribus, angustioribus.
HAB. Central Province, up to an elevation of 3000 feet. Var. β. Batticaloa, *Gardner.*

Arbor ingens. *Foliola* 5–8 poll. longa, 1½–3 poll. lata, *petiolulo* 4 lin. longo. *Paniculæ* supra-axillares, 3–5 poll. longæ, minutissime incano-tomentosæ, sparsifloræ; *pedicellis* articulatis. *Flores* pallide virides, octandri, circiter 3 lin. longi. *Calyx* cupuliformis, 4-emarginulatus. *Petala* reflexa, acuta, externe minute tomentosa. *Tubus stamineus* 4-gonus, dentibus 8, obtusis, bifidis. *Tubus interior ovario* rotundato, piloso æquilongus, denticulatus. *Fructus* rubescens, rotundatus, 4-locularis, 4-spermus, circiter 2½ poll. in diam., brevi-pedunculatus.

I suspect I have not seen the fertile flowers of this plant, for, judging from the

Digitized by Google

fruit being so shortly peduncled, it would seem probable that they are on much shorter panicles or racemes.

2. **D. Championii,** H.f. et T. MSS.; *foliis* glabris, abrupte pinnatis; *foliolis* 2–3-jugis, oblongo-spathulatis, subcoriaceis, aveniis, apice rotundatis.—C.P. 1193, 3596.

HAB. Central Province, up to an elevation of 4000 feet.

Arbor magna. *Foliola* 2–4 poll. longa, ¾–1½ poll. lata. *Paniculæ* supra-axillares, 2–3 poll. longæ, minutissime pilosulæ. *Flores* octandri, flavescentes, circiter 3 lin. longi. *Calyx* brevis, 4-lobus. *Petala* glabra, acuta. *Tubus stamineus* dentibus 8, obtusis, bifidis. *Tubus interior* nullus. *Fructus* pyriformis, pollicaris, *loculis* 1–2-spermis.

This differs from the other species of *Dysoxylon* in having no inner tube surrounding the ovary.

8. WALSURA, Roxb.

1. **W. piscidia,** Roxb. (W. et A. Prod. i. 120, cum syn.; Wight, Illust. i. 148. t. 55.)—C.P. 1162.

HAB. Common up to an elevation of 3000 feet. Nom. vulg. "Kirrekōng-gass."

2. **W. Gardneri,** Thw.; *foliis* unifoliolatis, glabris; *foliolo* integro, ovato, obtuse-acuminato; *petiolulo* brevi, cum *petiolo* multo longiore articulato.—C.P. 1163.

HAB. Central Province, at an elevation of 2000 to 4000 feet.

Arbor parva, 10–12-pedalis. *Foliola* 3–6 poll. longa, 1½–2½ lata, *petiolulo* 1–3 lin. longo. *Fructus* oblongus, parum apiculatus, 6–8 lin. longus.

The flowers of this are very similar to those of the preceding species, but the fruit is larger and more oblong. The axis of the panicle is most frequently produced into a leaf-branch, in which case the inflorescence appears scattered along the stem.

9. XYLOCARPUS, König.

1. **X. Granatum,** Kön. (W. et A. Prod. i. 121, cum syn.)—C.P. 2650.

HAB. South of the island; not common.

XLIII. CEDRELACEÆ.

1. CHICKRASSIA, Adr. Juss.

1. **C. tabularis,** Adr. Juss. (W. et A. Prod. i. 123; Wight, Illust. i. 149. t. 56.)

Var. β; *foliis* subtus tomentosis.—C.P. 2454.

HAB. Warmer parts of the island. Nom. vulg. "Hoolanghik-gass."

The wood of this tree is useful for building purposes.

2. CHLOROXYLON, DC.

1. **C. Swietenia,** DC. (W. et A. Prod. i. 123, cum syn.; Wight, Illust. i. 149. t. 56 *bis*.)—C.P. 1160.

HAB. Hot, drier parts of the island. Nom. vulg. "Booroota-gass."

This tree yields the satin-wood of commerce.

Digitized by Google

XLIV. AMPELIDEÆ.

1. CISSUS, Linn.

1. **C. edulis,** Dalz. in Hook. Lond. Journ. of Bot. ix. p. 248.—*C. quadrangularis,* Roxb. (non Linn.). *Vitis quadrangularis,* Wall.; W. et A. Prod. i. 125; Wight, Icones, t. 51.—C.P. 1174.

HAB. Common in the hot, drier parts of the island.

The Cinghalese use the succulent stems of the plant as a medicine.

2. **C. glyptocarpa,** Thw.; *ramulis* tenuibus, 4-alatis; *foliis* truncato-cordatis, acuminatis, serratis, glabris, subtus basi, costa nervisque adpresse pilosis; *stipulis* cymbiformibus; *cymis* petiolo longioribus, medium versus 3–5-radiatis, glabris.—C.P. 1183.

HAB. Hot, drier parts of the island.

Folia 2–3 poll. longa, 1–1¾ lata; *petiolo* alato, ¾–1¼ poll. longo. *Flores* parvi, rufescentes. *Petala* acuta, reflexa. *Stylus* cylindricus. *Stigma* minutum, bilobum. *Nuculania* oblonga, 3½ lin. longa, 1-sperma, nigro-purpurea. *Semen* pyriforme, dorso 6-seriatim excavato-punctatum, antice 2-sulcatum.

3. **C. repens,** Lam. (W. et A. Prod. i. 125, cum syn.)—C.P. 1180.

HAB. Warmer parts of the island; not uncommon.

4. **C. acuminata,** Thw.; *ramulis* teretibus; *foliis* membranaceis, truncato-cordatis, rostrato-acuminatis, denticulatis, glabris, superne costa venis primariisque appresse pilosis, longe petiolatis; *cymis* spadiceo-tomentosis, petiolo multo brevioribus.—C.P. 3451.

HAB. Ratnapoora District.

Folia 5–7 poll. longa, 2½–4 poll. lata; *petiolo* 2½–3½ poll. longo. *Stipulæ* reniformes, medio adnatæ. *Petala* externe pilosa.

Closely allied to the preceding species, but differing from it in the shape and texture of the leaves, and in these being usually five-nerved at the base, whereas in *C. repens* they are most commonly three-nerved; in the latter, too, the lamina is produced below the point of attachment of the petiole, giving the leaf a subpeltate character, but it is not so in the present species.

5. **C. glauca,** Roxb. Fl. Ind. i. 425.—*Vitis glauca,* W. et A. Prod. i. 126.—C.P. 2939.

HAB. Abundant, up to an elevation of 2000 feet.

6. **C. lonchiphylla,** Thw.; glabra, *foliis* oblongo-lanceolatis, acuminatis, remote denticulatis, basi truncato-rotundatis, 3-nerviis, parum subpeltatis; *cymis* brevi petiolo longioribus.—C.P. 1177.

HAB. Ambagamowa District, at no great elevation; rare. Muruta, *Gardner.*

Folia 4–7 poll. longa, 1½–2½ poll. lata, *petiolo* 3–6 lin. longo. *Stipulæ* cordatæ, medio adnatæ. *Flores* parvi. *Nuculania* rotundata, depressa.

7. **C. adnata,** Roxb.—*Vitis adnata,* Wall.; W. et A. Prod. i. 126, cum syn.; Wight, Icones, t. 144.—C.P. 3450.

HAB. Warmer parts of the island; not uncommon.

8. **C. angulata,** Lam.—*Vitis Linnæi,* Wall.; W. et A. Prod. i. 126, cum syn.—C.P. 1181.

HAB. Hot, drier parts of the island; common.

9. **C. trilobata,** Lam.—*Vitis Rheedii,* W. et A. Prod. i. 127, cum syn.—C.P. 1182.

HAB. Warmer parts of the island; common.

Digitized by Google

10. **C. setosa,** Roxb.—*Vitis setosa,* Wall.; W. et A. Prod. i. 127, cum syn.; Wight, Icones, t. 170.—C.P. 1179.
HAB. North of the island, *Gardner.*

11. **C. carnosa,** Lam.—*Vitis carnosa,* W. et A. Prod. i. 127, cum syn.—C.P. 2938.
HAB. Warmer parts of the island; common.

12. **C. muricata.**—*Vitis muricata,* Wall.; W. et A. Prod. i. 128, cum syn.; Wight, Icones, t. 740. ? *C. papillosa,* Bl. Bijdr. p. 183.
Var. *β. minor.*—C.P. 1178.
HAB. Central Province, up to an elevation of 3000 feet; not uncommon.

Folia simplicia vel 2–3-foliolata; *foliolis* 2–3½ poll. longis. *Nuculania* albida, 3–5 lin. in diam., 1–4-sperma.

I can find no character but its smaller size to distinguish this from the plant figured by Dr. Wight.

13. **C. Gardneri,** Thw.; glabra, *foliis* 3-foliolatis; *foliolis* ovato-lanceolatis, repando-dentatis, brevi-petiolatis, basi cuneatis; *lateralibus* minoribus obliquis; *stipulis* cordato-oblongis, adnatis; *cymis* petiolo multo longioribus.—C.P. 1176.
HAB. Matele and Hunasgiria Districts; not common.

Ramuli teretes, rufescentes. *Folia petiolo* circiter 1 poll. longo; *foliolo intermedio* 2–3 poll. longo, 1–1¼ poll. lato. *Cymæ* paucifloræ, rufescentes. *Nuculania* pisi magnitudine, nigro-purpurea.

14. **C. lanceolaria,** Roxb.—*Vitis lanceolaria,* Wall.; W. et A., l. c. cum syn.; Wight, Icones, tt. 28 et 177.—C.P. 3597.
HAB. Near Nalande.

It seems probable that *C. muricata* is only a form of this species, as suggested by Wight and Arnott.

15. **C. pedata,** Lam.—*Vitis pedata,* Wall.; W. et A. Prod. i. 128, cum syn.—C.P. 1175, 2725.
HAB. Very abundant. Nom. vulg. "Madeya-wel."

Varies very much in the amount of pubescence, sometimes being nearly glabrous.

16. **C. reticulata,** Thw.; glabra, *foliis* 3-foliolatis; *foliolis* subæqualibus, ovatis, cuspidatis, obscure denticulatis, subtus prominenti-reticulatis, basi angustatis; *lateralibus* obliquis; *cymis* petiolo longioribus.—C.P. 2857.
HAB. Ambagamowa District; rare.

Folia petiolo 1½–2½ poll. longo; *foliolis* 4–5 poll. longis, 2–2½ poll. latis; *petiolulis lateralibus* 3–6 lin. longis; *intermedio* pollicari. *Nuculania* ovoidea, pallide rosea, cerasi magnitudine. *Semina* oblonga, 4 lin. longa.

Closely allied to some forms of the preceding, but its differently-shaped and reticulated leaves at once distinguish it. The fruit is larger and somewhat attenuated at the apex, and the seeds, though with similar markings, are half as long again as those of *C. pedata.* The ternate character of the leaflets will probably be found not to be constant.

2. VITIS, Linn.

1. **V. Indica,** Linn. (W. et A. Prod. i. 131, cum syn.)—C.P. 1184.
HAB. Abundant, up to an elevation of 3000 feet.

Digitized by Google

3. LEEA, Linn.

1. **L. Staphylea,** Roxb. (W. et A. Prod. i. 132, cum syn.; Wight, Illust. i. 153. t. 58; Wight, Icon. t. 78.)—C.P. 732.
HAB. Very common, up to an elevation of 3000 feet. Nom. vulg. "Booroola-gass."

XLV. GERANIACEÆ.

1. GERANIUM, Linn.

1. **G. Nepalense,** Sweet, Ger. t. 12; DC. Prod. i. 643.—*G. affine*, W. et A. Prod. i. 133.—C.P. 2788.
HAB. Between Newera Ellia and Maturatte, at an elevation of 7000 feet; not common.

XLVI. OXALIDEÆ.

1. OXALIS, Linn.

1. **O. corniculata,** Linn. (W. et A. Prod. i. 142, cum syn.)—*O. repens*, Thunb.; DC. Prod. i. 693.—C.P. 1189.
Var. β. *minor*.—C.P. 1188.
HAB. Central Province, abundant up to an elevation of 7000 feet.

2. BIOPHYTUM, DC.

1. **B. sensitivum,** DC. Prod. i. 690, cum syn.—C.P. 1190.
HAB. Very abundant in the warmer parts of the island.

2. **B. nudum,** Arn. Pug. viii. 326; Wight, Illust. i. 161.—C.P. 464 (6 in parte).
HAB. Central Province, at an elevation of 4000 to 6000 feet.

The leaflets of this species are less falcate and of a firmer texture than those of the preceding, of which it is perhaps only a variety, and which it resembles in its subglabrous styles, shorter than those of the two following species.

3. **B. proliferum,** Arn. Pug. ix. 327; Wight, Illust. i. 162.—C.P. 2418.
Var. β; *foliis* majoribus; *foliolis* plus numerosis.—*B. intermedium*, Wight, l. c.—C.P. 2419 (6 in parte).
HAB. Central Province, at an elevation of 4000 to 7000 feet.

Besides the difference of habit, the longer pilose styles distinguish this from the two preceding species.

4. **B. nervifolium,** Thw.; *caule* simplici; *foliolis* circiter 12-jugis, obovato-oblongis, obtuse apiculatis; *venis* primariis paucis divaricatis, subtus prominentibus; *pedicellis* floribus brevioribus; *stylis* longis, pilosis, apice bifidis.—C.P. 2787.
HAB. Putlam, *A. O. Brodie*, Esq.

In habit and general appearance this a good deal resembles *B. sensitivum*, but the different shape and venation of the folioles, and the longer, hairy styles, seem satisfactorily to distinguish it.

Digitized by Google

XLVII. BALSAMINEÆ.

1. IMPATIENS, Linn.

(Nom. vulg. "Koodaloo-mal.")

Sect. 1. *Foliis oppositis.*

1. **I. rosmarinifolia,** Retz, (Arn. in Comp. to Bot. Mag. i. 325, cum syn.; Walp. Rep. i. 475.)—C.P. 31.

HAB. Very abundant, especially amongst high grass, from the level of the sea to an elevation of 7000 feet.

Sect. 2. *Foliis alternis. Pedicellis axillaribus, solitariis vel pluribus.*

2. **I. Balsamina,** Linn. (W. et A. Prod. i. 135, cum syn.)—C.P. 1213.

HAB. Central Province, at an elevation of 3000 to 6000 feet.

3. **I. cuspidata,** W. et A. Comp. to Bot. Mag. i. 321; Walp. Rep. p. 468; Wight, Icones, t. 741.—C.P. 156.

Var. β. *foliis* longioribus.—*I. bipartita,* Arn. l. c. i. 322; Walp. Rep. p. 468.—C.P. 503.

HAB. Var. *a.* Above Galagama, *Gardner.* Var. β. Central Province, at an elevation of 4000 to 7000 feet.

I can find nothing to distinguish var. β from the other form of the plant but its longer, narrower leaves, and these with rather more numerous and less distinct primary veins. The flowers are of a dull reddish-purple in both: the relative size of the anterior lobe of the petals varies a good deal in different specimens.

4. **I. Henslowiana,** Arn. l. c.; Walp. l. c. p. 469.—C.P. 49.

Var. β. *foliis* tomentosis.—*I. albida,* Wight, Icones, t. 743.—C.P. 547.

HAB. Central Province, at an elevation of 4000 to 6000 feet; on rocks.

The smoother variety of this species agrees very completely with Dr. Arnott's description, except that the posterior sepal is not three-lobed, but two-lobed, with a wide sinus. The flowers are white, or slightly tinged with red.

5. **I. flaccida,** Arn. l. c. p. 322; Walp. l. c. p. 468.—*I. latifolia,* Moon's Cat. p. 18.—C.P. 2791.

HAB. Abundant, up to an elevation of 3000 feet.

Herbacea, decumbens. *Flores* rubro-purpurei, pallidi vel rarius candidi, 1–1½ poll. in exp. *Sepalo posteriore* obcordato, carinato; *petalorum lobis* subæqualibus, rotundatis, emarginatis. *Semina* juniora pilis patentibus deciduis vestita.

I do not find the spur in this species thicker towards the middle, and the appearance was probably caused in Dr. Arnott's specimen by unequal pressure in drying. This must be closely allied to, if not a variety of, *I. latifolia,* Linn., judging from the figure in Rheede, Hort. Mal. ix. 91. t. 48; and the last paragraph in the description of t. 52, page 101, in the same volume, would seem to imply that the former has smooth capsules, though it is referred by Messrs. Wright and Arnott to a species with them tomentose.

6. **I. leptopoda,** Arn. l. c. p. 321.—*I. brevicornu,* Arn. l. c. *I. gibbosa,* Arn. l. c.; Walp. l. c. pp. 468, 469. ? *I. Leschenaultii,* Wight, Icon. t. 970 *bis.*—C.P. 140 (455).

HAB. Central Province, at an elevation of 5000 to 8000 feet.

Erecta, 1–3-pedalis. *Petala* rosea, divergentia, *lobis* subæquilongis, posteriore parum latiore, emarginato. *Capsulæ* glabræ.

A very common, and also a very variable species, and the flowers are frequently quite ecalcarate. The scattered, brittle, yellow pubescence sometimes upon the

Digitized by Google

plant, would seem to be of an abnormal character, and perhaps the absence or reduced size of the spur arises from disease or injury. *I. Leschenaultii* of Dr. Wight's 'Icones,' closely resembles some states of the present; but in that the petals appear to be approximated, whilst in this they are divergent.

7. **I. truncata,** Thw.; *foliis* ovato-lanceolatis, acuminatis, denticulatis, sparse utrinque pilosis, basi angustata petioloque parce glanduloso-setigeris; *pedicellis* 1–3-nis, tenuibus, una cum alabastris pilosis, foliis brevioribus; *sepalis lateralibus* minutis, lanceolatis, *posteriore* multo majore, rotundato, cuspidato, *anteriore* hoc æquilongo, cuspidato, concavo, *calcare* recto, brevi, cylindrico, truncato; *petalis* approximatis, inæqualiter bilobis, lobo anteriore multo majore, subsemicirculari; *capsulis* junioribus pilosis.—C.P. 2426.

Var. β. *subglabra;* planta fere tota glabra.

HAB. Central Province, at an elevation of 4000 to 6000 feet.

Herbacea, 1–2-pedalis, basi decumbens, radicans. *Ramuli* rufescentes. *Folia* 1–2 poll. longa, ½–1½ poll. lata, subtus pallidiora, *petiolo* ½–1½ poll. longo. *Flores* pallide rosei, externe rufescentes, *petalorum lobis* basi rufo-tinctis.

Apparently very closely allied to *I. inconspicua*, Benth., Wight, Icon. t. 970, but is distinguished by its alternate leaves, spurred flowers, and much smaller, lateral sepals.

8. **I. macrophylla,** Gardner, MSS.; Hook. Bot. Mag. 4662.—C.P. 1212.

HAB. Central Province, at an elevation of 4000 to 6000 feet.

Sepala lateralia anguste oblonga, *posteriore* 3–4-plo breviora. *Petala* lutea, subbiloba, apice exsecta, inclusa.

Nearly allied to, and in its foliage closely resembling the next species, but distinguished by its more numerous flowers, shorter and less saccate lower sepal, and included petals.

9. **I. glandulifera,** Arn. in Hook. Comp. Bot. Mag. ii. 322.—*I. cornigera*, Hook. Bot. Mag. t. 4623, non Arn.—C.P. 2427.

HAB. Central Province, at an elevation of 4000 to 6000 feet.

Caulis erectus, 4–6-pedalis. *Folia* majuscula, denticulata, longe petiolata. *Pedicelli* fasciculati, petiolis glanduloso-setigeris breviores. *Sepala lateralia* minuta, viridia; *posterius* cucullatum, viride, margine rufescente; *anterius* luteo-rufescens, profunde saccatum, in calcar breve incurvum apice incrassatum angustatum. *Petala* rosea, lobis subæqualibus, rotundatis; *posteriore* interne appendiculato; *anteriore* porrecto, exserto, apice emarginato.

10. **I. repens,** Moon's Cat.; Wight, Illust. i. 160. t. 61; Walp. l. c. p. 469.—C.P. 2790.

HAB. Southern and central parts of the island, at no great elevation.

Sect. 3.—*Foliis alternis; pedunculis flores plures gerentibus.*

11. **I. Walkeri,** Hook. (Arn. l. c. p. 324. t. 18; Walp. l. c. p. 471.)—C.P. 1211.

HAB. Central Province, at an elevation of 4000 to 6000 feet.

12. **I. Hookeriana,** Arn. l. c. p. 324; Walp. l. c. p. 471.—? *I. grandis*, Heyne; Roxb. Fl. Ind. (ed. Wallich) ii. 464.—C.P. 2425.

HAB. Central Province, at an elevation of 3000 to 5000 feet.

I strongly suspect that this beautiful species is identical with *I. grandis*, Heyne. It varies a good deal in the shape of the lateral sepals, and in the size and colour of the flowers, which latter are either quite white or more or less blotched with pale or deep blood-colour.

Digitized by Google

13. **I. elongata,** Arn. l. c. p. 324; Walp. l. c. p. 473.—C.P. 436 (453).
HAB. Near Adam's Peak, at an elevation of 3000 to 4000 feet.

Flores rubri. *Petalorum lobus posterior* parvus, sepalis lateralibus æquilongus; *anterior* multo major, oblique rotundatus, obtusus.

14. **I. subcordata,** Arn. l. c. p. 323; Walp. l. c. p. 471.—C.P. 1230 and 2789.
HAB. Central Province, at an elevation of 3000 to 6000 feet.

Herbacea, 1–2-pedalis, basi decumbens, radicans. *Folia* 1½–2½ poll. longa, ¾–1¼ poll. lata, *petiolo* ¾–2 poll. longo. *Flores* albidi, sepalis lateralibus posterioreque rubescentibus.

15. **I. cornigera,** Arn. l. c. p. 323; Walp. l. c. p. 473.—C.P. 332.
HAB. Warmer parts of the island, at no great elevation, in damp, shady woods.

Glaberrima. *Caulis* simplex, ½–2-pedalis. *Folia* pallide vel nigro-viridia, sæpe ad costam albido-areolata, subtus pallida vel rufo-plumbea, *petiolo* mediocri. *Flores* citrini, plus minus viridi vel rubro tincti. *Sepala lateralia* parva, ovata, subcordata, acuminata; *posterius* rotundatum, subcucullatum, apiculatum; *anterius* in calcar longum subcylindricum apice attenuato sursum arcte uncinato productum. *Petalorum lobus posterior* minutus; *anterior* multo major, subquadratus, pedicello æquilongo suffultus.

16. **I. Arnottii,** Thw.; *foliis* ovato-lanceolatis, acuminatis, crenatis, denticulatis, superne sparsissime pilosis, subtus glabris, basi angustatis, *petiolo* eglanduloso; *sepalis lateralibus* parvis, cordatis, valde obliquis, obtuse apiculatis, *anteriore* in calcar gracile incurvum sensim attenuatum flore duplo longius producto; *petalorum lobo posteriore* parvo, *anteriore* multo majore, subsemicirculare, pedicellato, porrecto.—C.P. 725.
HAB. Central Province, at an elevation of 1000 to 3000 feet; not common.

Præcedente valde affinis similisque, sed sepalorum lateralium, calcaris petalorumque forma satis differt.—*Flores* rubro-purpurei, medio luteo-tincti. *Capsulæ* 1–3-spermæ.

17. **I. linearis,** Arn. l. c. p. 323; Walp. l. c. p. 473.—C.P. 372.
HAB. Adam's Peak, at an elevation of 4000 to 6000 feet.

18. **I. appendiculata,** Arn. l. c. p. 323; Walp. l. c. p. 473.
Var. *α.*—? *I. candida*, Lindl. Bot. Reg. new series, vol. xiii.; Misc. 85. n. 204; Walp. l. c. p. 475.—C.P. 1207.
Var. *β.*—C.P. 1208.
Var. *γ*; *foliis* majoribus, pilosioribus.—C.P. 1209.
HAB. Southern and central parts of the island, at an elevation of 2000 to 5000 feet.

Species valde variabilis. *Folia* ad caulis sæpissime simplicis apicem aggregata, vel sparsa, ½–6 poll. longa, subglabra vel pilosa. *Flores* albidi vel pallide rosei, *sepalo anteriore* transverse rubro-striato. *Petalorum lobus posterior* parvus, lanceolatus, longe caudatus; *anterior* major, semicordatus, acuminatus.

19. **I. leucantha,** Thw.; herbacea, pusilla, simplex; *foliis* ad caulis apicem approximatis, lanceolatis, acuminatis, denticulatis, parce pilosis, versus basin petioloque subalato glanduloso-setigeris; *sepalo anteriore* in calcar æquilongum rectum conicum apice (siccum) subabrupte attenuatum producto; *petalorum lobo posteriore* parvo, lanceolato, *anteriore* multo majore, inæqualiter 3-partito, apicibus rotundatis.—C.P. 3548.
HAB. Hinidoon and Kittool Galle.

Digitized by Google

A præcedente, cui valde similis affinisque, calcaris petalorumque forma præcipue differt. *Flores* albi, *sepalo anteriore* rufo-guttato.

20. **I. janthina,** Thw.; herbacea, pusilla, simplex, glaberrima; *foliis* 1–4, sæpissime caulem terminantibus, membranaceis, ovatis vel rotundatis, acuminatis, denticulatis, *petiolo* eglanduloso; *sepalis lateralibus* minoribus, oblongis, subacutis, *posteriore* rotundato, cucullato, *anteriore* infundibuliformi, in calcar æquilongum sensim attenuatum incurvatum producto; *petalorum lobis* subæqualibus, *posteriore* acuto, *anteriore* subrotundato, obtuso.—C.P. 3003.

HAB. Hinidoon and Pasdoon Corles, at no great elevation; rare.

Folia 1–4 poll. longa, ¾–3 poll. lata, petiolo ½–2 poll. longo. *Pedicelli* pollicares, ad *pedunculi* elongati apicem in racemum brevem aggregati; *bracteis* ovalibus, persistentibus. *Flores* violacei, 6–8 lin. in exp. *Capsulæ* polyspermæ.

21. **I. acaulis,** Arn. l. c. p. 325.—? *I. rivalis*, Wight, Icon. t. 751.—C.P. 490 (2595).

HAB. Central Province, at an elevation of 3000 to 5000 feet, on wet rocks; abundant.

Folia rotundata, ovata vel lanceolata, *petiolo* rufescente æquilonga vel multo breviora, parce pilosa vel subglabra. *Scapi* rufescentes. *Flores* rubri, 1–1¼ poll. in exp., *calcare* æquilongo vel parum longiore. *Petalorum lobi* æquilongi; *anterior* latior, oblique truncatus vel emarginatus.

Dr. Wight's *I. rivalis*, figured with the anterior lobes of the petals bipartite, is probably only a form of the present species. *I. scapiflora*, Heyne, is described by Roxburgh as having a spur several inches in length, and therefore must certainly be different both from this and from the *I. scapiflora* of Wight's 'Icones,' t. 967.

2. HYDROCERA, Blume.

1. **H. triflora,** W. et A. Prod. i. 140, cum syn.—C.P. 1210.

HAB. Warmer parts of the island, in watery places; very abundant.

XLVIII. PITTOSPOREÆ.

1. PITTOSPORUM, Sol.

1. **P. Ceylanicum,** Wight, Illust. i. 173.—? *P. floribundum*, W. et A. Prod. i. 154. ? *Celastrus verticillatus*, Roxb. Fl. Ind. i. 391. ? *Senacia Napaulensis*, DC. Prod. i. 347.—C.P. 476.

HAB. Oova District, at an elevation of 3000 to 5000 feet. Nom. vulg. "Katteya-gass."

Arbor mediocris, 15–20-pedalis. *Folia* oblongo-lanceolata, cuneata, apice subacuta vel rotundata, glabra, 3–4 poll. longa, ¾–1 poll. lata, *petiolo* circiter ½ poll. longo. *Flores* albidi. *Ovarium* pilosum. *Stylus* cylindricus, glaber. *Capsulæ* uniloculares, viridi-fuscescentes.

2. **P. tetraspermum,** W. et A. Prod. i. 154; Wight, Icon. t. 971.—C.P. 572 (685).

HAB. Central Province, at an elevation of 5000 to 7000 feet, on the banks of streams.

XLIX. ZYGOPHYLLEÆ.

1. TRIBULUS, Tourn.

1. **T. terrestris,** Linn. (Walp. Rep. ii. 822, cum syn.)—*T. lanuginosus*,

Digitized by Google

Linn.; DC. Prod. i. 704, cum syn.; Wight, Icon. t. 98; Illust. p. 164. —C.P. 1252.

HAB. North of the island, *Gardner*.

L. XANTHOXYLACEÆ.

1. XANTHOXYLON, Linn.

1. **X. Rhetsa,** DC. (W. et A. Prod. i. 148, cum syn.)—C.P. 3490.

HAB. Central Province, *W. H. Wright, Esq.*; near Colombo, *W. Ferguson, Esq.* Nom. vulg. "Kattoo-keena-gass."

This tree so precisely corresponds with Roxburgh's description, that there can be no doubt of its being the *Fagara Rhetsa* of that author.

2. **X. triphyllum,** Juss. (Wight, Illust. i. 169; Icon. t. 204.)—*X. Zeylanicum*, DC. Prod. i. 728, cum syn. *Evodia triphylla*, DC. l. c. p. 724, cum syn.—C.P. 538, 2501.

Var. β; *foliis* digitatis, 5-foliolatis.

HAB. Very abundant, up to an elevation of 5000 feet. Var. β. Near Ratnapoora. Nom. vulg. "Loonoo-ankenda-gass."

3. **X. tetraspermum,** W. et A. Prod. i. 148.—C.P. 386.

HAB. Central Province, at an elevation of 3000 to 5000 feet.

Frutex scandens, aculeatus. *Folia* impari-pinnata, rachi aculeata. *Foliola* 2–3-juga, cum impari, subsessilia, costulis sæpissime aculeatis. *Flores* parvi, abortu dioici, tetrameri, albidi, roseo-tincti. MASC. *Petala* oblonga, acuta, calycis segmentis multo longiora. *Stamina* in lobis disci ovarium abortivum cingentis inserta. *Ovarii abort.* loborum apices recurvato-uncinati.

2. TODDALIA, Juss.

1. **T. aculeata,** Pers. (W. et A. Prod. i. 149, cum syn.)—*T. floribunda*, Wall. Plant. As. Rar. ii. 17. t. 232; Wight, Illust. i. 169. t. 66.—C.P. 1250, 2413 (1251).

HAB. Very abundant, up to an elevation of 4000 feet. Nom. vulg. "Koodoomirris-wel."

A most variable plant, as regards the shape and size of the leaflets, the extent of aculeation, and the amount of the red pubescence with which the younger parts are clothed. The large-based aculei are common to the stems of all the varieties, and therefore furnish no character for their separation.

3. CYMINOSMA, Gærtn.

1. **C. pedunculata,** DC. (W. et A. Prod. i. 147, cum syn.; Wight, Illust. i. 165. t. 65.)—C.P. 1249.

HAB. Common, up to an elevation of 4000 feet. Nom. vulg. "Ankenda-gass."

Nuculania rotundata, 5–7 lin. in diam., albida.

4. AILANTHUS, Desf.

1. **A. Malabaricus,** DC. Prod. ii. p. 89, cum syn.; Wight, Icon. t. 1604.—C.P. 3456.

HAB. Near Colombo, *Mr. W. Ferguson*; district of the Seven Corles. Nom. vulg. "Koombaloo-gass," "Wal-biling-gass."

Brucea Sumatrana, Roxb., is become a troublesome weed, but it does not appear to be indigenous.

Digitized by Google

LI. SIMARUBEÆ.

1. SAMADERA, Gærtn.

1. **S. Indica,** Gærtn. (W. et A. Prod. i. 151, cum syn.)—C.P. 2766.
HAB. South of the island; not uncommon. Nom. vulg. "Samadara-gass."

The root of this plant is used as a medicine by the Cinghalese, and so also is the fruit.

LII. OCHNACEÆ.

1. OCHNA, Linn.

(Nom. vulg. "Mal-kaara-gass.")

1. **O. squarrosa,** Linn. (Wight, Illust. i. 172. t. 69; Roxb. Cor. i. t. 89.)—C.P. 1223.
HAB. Batticaloa and Jaffna, *Gardner*.

2. **O. cordata,** Thw.; *foliis* ellipticis vel obovatis, obtusis, dentatis, basi cordatis; *racemis* ramulos foliosos terminantibus, brevibus, 3–6-floris; *sepalis* 3–5; *petalis carpellis*que circiter 7.—C.P. 1222.
HAB. Jaffna, *Gardner*.

Folia 1–2 poll. longa, ½–1¼ lata, *petiolo* circiter 1 lin. longo. *Pedicelli* pollicares, prope basin articulati. *Petala* rotundata, longe unguiculata, ¾ poll. longa. *Antheræ* filamentis plus quam duplo longiores. *Stigma* capitatum.

But for the cordate base of the leaves I should have referred this, without much doubt, to the *O. obtusata*, DC., but that author would scarcely have passed over, unnoticed, so striking a characteristic of the present species. I have not sufficient materials to give so detailed a description as would be desirable.

3. **O. Moonii,** Thw.—*O. squarrosa*, Moon's Cat.; *foliis* lanceolatis, utrinque angustatis, denticulatis, *venis venulis*que prominentibus; *racemis* 6–12-floris, ramulos inferiores breves denudatos terminantibus; *pedicellis* floribus subduplo longioribus, ad partem inferiorem tertiam vel quartam articulatis.—C.P. 1224.
Var. β; *foliis* minoribus, utrinque subobtusis.—C.P. 2554.
HAB. Warmer parts of the island, up to an elevation of 2000 feet. Var. β. Jaffna, *Gardner*.

Folia 3–7 poll. longa, 1½–2 poll. lata, *petiolo* circiter 1 lin. longo. *Flores* 4½–5 lin. longi. *Petala* 5, oblonga, sepalis æquilonga. *Antheræ* filamentis subduplo longiores. *Carpella* 5–7.

4. **O. rufescens,** Thw.; *foliis* lanceolatis, acuminatis, argute dentatis, nitidis, conspicue et minutissime venulosis, basi angustatis; *racemis* 6–12-floris, ramulos inferiores breves denudatos terminantibus; *pedicellis* floribus subtriplo longioribus, prope basin articulatis.—C.P. 3455.
HAB. Hinidoon Corle, at an elevation of about 1000 feet.

Folia 4–6 poll. longa, circiter 1½ poll. lata, *petiolo* 2 lin. longo, juniora rufescentia. *Flores* 3–3½ lin. longi. *Carpella* 7–8.

Closely allied to the preceding, but distinguished by its much smaller flowers, and the relatively much shorter inferior articulation of the pedicel. In many respects it would seem to resemble the *O. nitida*, Thunb., also said to occur in Ceylon, but the character of the inflorescence is different.

5. **O. Wightiana,** Wall. (W. et A. Prod. i. 152: ? Wight, Icon.

Digitized by Google

t. 223.)—*O. Heyneana*, W. et A., l. c. *O. Walkerii*, Planchon, Hook. Lond. Journ. v. 653; Walp. Ann. i. 180.—C.P. 1221.

HAB. Hot, drier parts of the island, at no great elevation.

Folia 1-2 poll. longa, ½-¾ lata, *petiolo* 1 lin. longo. *Pedicelli* 4-7 lin. longi, prope medium articulati. *Flores* 3½-4 lin. longi.

2. GOMPHIA, Schreb.

1. **G. angustifolia**, Vahl, (W. et A. Prod. i. 153, cum syn.; et, fere sine dubio, *Walkera serrata*, Willd. DC. Prod. i. 737, cum syn.)—C.P. 2412.

HAB. Common, up to an elevation of 3000 feet. Nom. vulg. "Bokaara-gass."

The wood of this tree, which grows to the height of thirty feet, is useful for building purposes.

LIII. STAPHYLEACEÆ.

1. TURPINIA, Ventn.

1. **T. Nepalensis**, Wall. (W. et A. Prod. i. 156; Wight, Icon. t. 972.)—C.P. 218 (563, 569).

Var. β. *montana; floribus* majoribus, paucioribus.—? *T. pomifera*, DC. Prod. ii. p. 3, cum syn.

HAB. Var. α. Common in the warm, moister parts of the island. Var. β occurs abundantly in more elevated situations, up to 6000 feet. Nom. vulg. "Kankoombala-gass," "Attakirilla-gass."

Stipulæ interpetiolares triangulares, cito deciduæ. *Nuculania* firma, subglobosa, viridia, nigro-purpurascentia, deinde cinerascentia, ½-1 poll. in diam.

The extreme forms of this plant might easily be taken for two distinct species; but this is another instance of an elevated humid locality producing a form with fewer and larger flowers than are exhibited in the same species when growing nearer the level of the sea.

LIV. CELASTRACEÆ.

Sect. 1. *Ovarium liberum vel subliberum.*

1. PLEUROSTYLIA, W. et A.

1. **P. Wightii**, W. et A. Prod. i. 157, cum syn.; Wight, Icones, t. 155.—C.P. 329.

HAB. Hot, drier parts of the island, up to no great elevation.

2. MICROTROPIS, Wall.

Semina exarillata; *testa* colorata.

1. **M. Wallichiana**, Wight, MSS.; *foliis* obovato- vel oblongo-lanceolatis, acuminatis, petiolatis; *floribus* axillaribus ramulinisque, subsessilibus, confertis.—C.P. 43 (202, 374, 402).

HAB. Forests of the Central Province and Saffragam, at an elevation of 2000 to 5000 feet; abundant.

Digitized by Google

Arbor mediocris. *Folia* glabra, 2½–6 poll. longa, 1–3 poll. lata, *petiolo* 2–4 lin. longo.

This would appear to differ from *M. garciniæfolia*, Wall. (Wight, Icon. t. 761), principally in its subsessile, more numerous flowers, and it will probably prove to be merely a variety of that species.

2. **M. ramiflora,** Wight, Icones, t. 977.—C.P. 148, 1228.

Var. β; *foliis* minoribus, oblongo-lanceolatis, basi angustatis.

HAB. Abundant at Newera Ellia and other of the more elevated parts of the Central Province. Var. β occurs in rather dry situations.

Folia 1–3 poll. longa, ½–2 poll. lata, *petiolo* 1–2 lin. longo. *Pedunculi* ½–2 lin. longi.

This, like the preceding, is a very variable species, the size, form, and texture of the leaves being modified according to the kind of situation in which it occurs. Var. β bears a considerable general resemblance to *M. microcarpa*, Wight, Icones, t. 975, but I have never seen the Ceylon plant with the peduncles and pedicels so elongated as represented in that figure.

3. KURRIMIA, Wall., Arnott.

Bhesa, Ham., Arn., Endlich. *Rhesa*, Walpers.

Ovarium liberum, 2-loculare; *loculis* 2-ovulatis. *Ovula* basi affixa, erecta, collateralia. *Capsula* 1-locularis, bivalvis, 1–2-sperma. *Semina* erecta, *arillo* carnoso.

1. **K. Ceylanica,** Arn. Pug. x. 328.—C.P. 1225.

Var. β. *montana; paniculis* minus elongatis; *floribus* majoribus.—C.P. 409.

HAB. Var. α. In warm, moister parts of the island. Var. β. Central Province, up to an elevation of 5000 feet. Nom. vulg. "Palang," "Hoorakandoo," and "Alareya-gass."

Arbor magna. *Ramuli* teretes, glabri; *juniorum* apices acuti, *stipulis* magnis circumvolutis cito deciduis tecti. *Folia* glabra, 3–6 poll. longa, ½–3 poll. lata, *petiolo* ½–1½ poll. longo. *Flores* parvi, pallide virides. *Capsulæ* oblongæ, carnoso-coriaceæ, ¾ poll. longæ, rufescentes. *Semina* oblonga, fere ad apicem *arillo* carnoso albido inclusa; *testa* membranacea, brunnea.

4. CELASTRUS, Linn.

1. **C. paniculata,** Willd. (W. et A. Prod. i. 158, cum syn.; Wight, Illust. i. 172. t. 72; Icones, t. 158.)—C.P. 1232.

HAB. Common up to an elevation of 2000 feet.

Sect. 2.—*Ovarium disco immersum et cum eo consolidatum.*

5. CATHA, Försk.

1. **C. emarginata,** G. Don.—*Celastrus emarginatus*, Willd.; W. et A. Prod. i. p. 160, cum syn.—C.P. 1235.

HAB. Hot, drier parts of the island. Nom. vulg. "Deya-eringoo."

2. **C. fruticosa,** Thw.; *foliis* parvis, oblongo-spathulatis vel sub-trapezoideis, crenato-serratis, glabris, petiolatis, subtus prominenti-reticulatis; *corymbis* axillaribus, multifloris, folio brevioribus.—C.P. 3386.

Digitized by Google

Hab. Banks of the Mahawelliganga, near Nawalapittya, in the Central Province.

Frutex inermis, 8–10-pedalis. *Ramuli* angulosi. *Folia* ¾–1¼ poll. longa, 4–7 lin. lata, *petiolo* circiter 1 lin. longo. *Flores* parvi, 1 lin. in exp. *Petala* 5, albida. *Stylus* brevis. *Stigmata* 3, brevia, recurvata. *Capsulæ* 3-loculares, pisi magnitudine, rubiginosæ, transverse striatæ. *Semina* coccinea, nitida; *arillo* parvo, albido.

6. EVONYMUS, Linn.

1. **E. revolutus,** Wight, Illust. i. 178; Walp. Rep. i. 531.—C.P. 579.
Hab. Newera and other very elevated parts of the island.

Arbor mediocris. *Folia* opposita vel terna, sæpe rotundata. *Flores* virides, purpurascentes.

2. **E. dichotomus,** Heyne, (W. et A. Prod. i. 160, cum syn.)—C.P. 171.
Hab. Galagama, on the banks of streams.

3. **E. Walkerii,** Wight, l. c.; Walpers, l. c.—*E. Zeylanicus*, Moon, Cat. p. 17.—C.P. 478.
Hab. Very abundant in the southern and central parts of the island, up to an elevation of 3000 feet.

Closely allied to the preceding, from which it differs principally in its shorter petioles and flower-stalks.

7. GLYPTOPETALUM, Thw.

Hook. Journ. of Bot. vol. viii. (1856) p. 267. t. 7 *B*.

Flores tetrameri. *Petala* superne bifoveolata. *Antherarum loculi* ad apicem connectivi maximi innati siti, basi divergentes. *Ovarium* pyramidato-tetragonum, 4-loculare. *Ovula* in loculis singula, ab apice pendula. *Capsulæ* rotundatæ, 1–4-spermæ. *Semina* arillata.

1. **G. Zeylanicum,** Thw. l. c.—C.P. 589.
Hab. Central Province, up to an elevation of 3000 feet.

Folia opposita, lanceolata, serrata, glabra, 4½–6 poll. longa, 1¼–2¼ poll. lata; *petiolo* ½ poll. longo. *Cymarum* supra-axillarium *pedunculi* 1–1½ poll. longi; *pedicelli* divaricati, ¼ poll. longi. *Flores* albido-virescentes, 4 lin. lati. *Semina* ½ poll. longa, ovoidea; *arillo* rubro ultra medium attingente; *testa* flavo-rufescente.

8. ELÆODENDRON, Jacq.

1. **E. glaucum,** Pers. (Roxb. Fl. Ind. (Wallich) ii. 432, cum syn.)—C.P. 1227.
Var. β. *montanum; floribus nuculaniisque* majoribus.—C.P. 2520.
Hab. Var. α. Hot, drier parts of the island. Var. β. Central Province, at an elevation of 3000 to 4500 feet.

I can find nothing to distinguish the two varieties of this species except the larger flowers and fruit of var. β, and the petioles of this form are usually somewhat shorter than in var. α.

LV. RHAMNACEÆ.

1. ZIZYPHUS, Tourn.

1. **Z. rugosa,** Lam. (W. et A. Prod. i. 162, cum syn.; Wight, Icon. t. 339.)—C.P. 2719.

Digitized by Google

Hab. Very abundant, up to an elevation of 2000 feet. Nom. vulg. "Maha-erraminya."

2. **Z. xylopyra,** Willd. (W. et A., l. c. cum syn.)—C.P. 1243.
Hab. Hot, drier parts of the island.

3. **Z. Jujuba,** Lam. (W. et A., l. c.; Wight, Icon. t. 99.)—C.P. 1242.
Hab. Anooradhapoora, *Gardner*.

4. **Z. Œnoplia,** Mill. (W. et A., l. c. p. 163.)—C.P. 1240.
Hab. Common, up to an elevation of 3000 feet. Nom. vulg. "Erraminya-wel."

5. **Z. lucida,** Moon, Cat. p. 17; *foliis* ovato-lanceolatis, crenato-serrulatis, obtuse acuminatis, minute apiculatis, basi obliquis, 3–5-nerviis, transverse parallelo-venulosis, glabris, petiolo nervisque pubescentibus; *cymis* folio multo brevioribus, tomentosis; *stylis* 3–4, ad medium coalitis.—? *Z. horrida*, Roth, nov. sp. p. 159.—C.P. 1241.
Hab. Matele, *Moon;* Kornegalle District, abundant.

Fruticosa. Ramuli teretes, nigrescentes, juniores tomentosi; *aculeis* solitariis vel binis. *Folia* 2–3 poll. longa, ¾–1¼ poll. lata, *petiolo* 3 lin. longo. *Ovarium* 3–4-loculare. *Nuculania* globosa, circiter 8 lin. in diam., carnosa, viridi-purpurascentia, 2–4-sperma; *putamine* osseo, ruguloso.

It is difficult to surmise what can be the *Rhamnus Napeca*, Linn. Fl. Zeyl. 87, the description of which agrees tolerably well with the characters of the present plant, except as regards the number of styles, which seems decisive against their being identical.

2. BERCHEMIA, Neck.

1. **B. parviflora,** Wall. (W. et A. Prod. i. 163, cum syn.; Wight, Icones (19), t. 513.)—C.P. 2477.
Hab. Maturate District, in the Central Province, up to an elevation of 3000 feet; not common.

In my specimens the leaves are oblong-lanceolate, and not cordate at the base as in Dr. Wight's figure, but in other respects the characters correspond.

3. VENTILAGO, Gærtn.

1. **V. Maderaspatana,** Gærtn. (W. et A. Prod. i. 164, cum syn.; Wight, Icones, t. 163.)—C.P. 1236.
Hab. Common in the hot, drier parts of the island, up to an elevation of 1500 feet.

4. RHAMNUS, Linn.

1. **R. Wightii,** W. et A. Prod. i. 164, cum syn.; Wight, Icones, t. 159.—C.P. 2525.
Hab. Newera Ellia and other of the most elevated parts of the Central Province.

2. **R. Arnottianus,** Gardn. MSS.; *foliis* glabris, ovato-lanceolatis, crenatis, glandulose serrulatis, obtuse acuminatis, superne depresso-reticulatis; *pedunculis* unifloris, axillaribus, ternis, puberulis, *petiolo* superne puberulo longioribus; *petalis* nullis.—C.P. 201.
Hab. Most elevated parts of the Central Province.

Arbor parva. *Ramuli* juniores puberuli. *Folia* 1½–2½ poll. longa, ¾–1¼ poll.

Digitized by Google

lata, *petiolo* 2–4 lin. longo. *Stipulæ* lineari-lanceolatæ, 2½ lin. longæ, basi interne glandulosæ, cito deciduæ; *glandulis* minutis, erectis, clavatis, rubris, persistentibus. *Calycis laciniæ* 4, acutæ, externe pilosæ. *Stamina* 4, filamentis brevibus. *Styli* 2–3, basi coaliti. *Nuculania* pisi parvi magnitudine, nigro-purpurea.

5. SCUTIA, Comm.

1. **S. Indica,** Brongn. (W. et A. Prod. i. 165, cum syn.; Wight, Illust. 180. t. 73.)—C.P. 1233.
HAB. Abundant in the hot, drier parts of the island.

6. COLUBRINA, Rich.

1. **C. Asiatica,** Brongn. (W. et A. Prod. i. 166, cum syn.; Wight, Illust. 180. t. 74.)—C.P. 1239.
HAB. North of the island, *Gardner*.

7. GOUANIA, Jacq.

1. **G. microcarpa,** DC. (W. et A. Prod. i. 167, cum syn.)—C.P. 1238.
HAB. Common, up to an elevation of 2000 feet.

LVI. TEREBINTHACEÆ.

1. MANGIFERA, Linn.

1. **M. Indica,** Linn. (W. et A. Prod. i. 170, cum syn.)—C.P. 1256, 2614.
HAB. Abundant, up to an elevation of 3000 feet. Nom. vulg. "Amba-" and "Attamba-gass."

2. ANACARDIUM, Rottb.

1. **A. occidentale,** Linn. (W. et A. Prod. i. 168, cum syn.)
HAB. Naturalized in some of the warmer parts of the island. Nom. vulg. "Cadjoo-gass."

3. SEMECARPUS, Linn.

Sect. 1. *Paniculæ ramulos terminantes.*

1. **S. subpeltata,** Thw.; *foliis* magnis, ovato-lanceolatis, acuminatis, glabris, coriaceis, nitidis, subpeltatis; *drupis* transverse oblongis, parce compressis, dimidio inferiore *hypocarpio** magno carnoso subreniformi tectis.—C.P. 3004.
HAB. Singhe-rajah and other forests between Ratnapoora and Galle. Nom. vulg. "Maha-badoolla-gass."

Arbor magna, 30–40-pedalis. *Folia* 10–15 poll. longa, 4–6½ poll. lata; *petiolo*

---

* The fleshy structure on which the drupe in this genus rests, and for which I propose the name of *hypocarpium*, can hardly be called a "*torus incrassatus*," as it is rather an enlargement of the base of the calyx.

Digitized by Google

crasso, 1½–2 poll. longo. *Paniculæ* magnæ, ramis patentibus. *Drupæ* circiter ¾ poll. in alt., 1¼ poll. in max. lat.

2. **S. Gardneri,** Thw.; *foliis* lanceolatis vel oblongo-lanceolatis, acuminatis, glabris; *petiolo* longiusculo; *drupis* oblique oblongis, parce compressis, dimidio inferiore *hypocarpio* magno carnoso cupuliformi tectis.—C.P. 1257, 2940.

HAB. Very common in the Central Province, up to an elevation of 3000 feet. Nom. vulg. "Badoolla-gass."

Arbor mediocris. *Folia* 4½–13 poll. longa, 1½–4 poll. lata; *petiolo* crassiusculo, ¾–2 poll. longo. *Paniculæ* folio subæquilongæ. *Drupæ* circiter 9 lin. longæ, *hypocarpio* circiter 7 lin. lato.

3. **S. obscura,** Thw.; *foliis* glabris, ovato-oblongis, obtusis, basi cuneatis, superne nitidis; *petiolo* brevi, vix incrassato; *drupis* (immaturis) oblongis, dimidio inferiore *hypocarpio* cupuliformi carnoso tectis. —C.P. 2556.

HAB. Deltotte, in the Central Province, at an elevation of 3000 feet.

Arbor mediocris. *Folia* 3–4 poll. longa, 1¼–1¾ poll. lata, *petiolo* circiter 3 lin. longo. *Paniculæ* folio subæquilongæ.

4. **S. oblongifolia,** Thw.; *foliis* glabris, oblongis, apice rotundatis vel obscure obtuse acuminatis, basi cuneatis, *petiolo* basi incrassato; *drupis* oblongis, parce obliquis compressisque, apiculatis, *hypocarpio* (sicco) angustiore poculiformi suffultis.—? *S.* ?*Zeylanica,* Blume, Mus. Bot. Lugd.-Bat. p. 189.—C.P. 1258.

HAB. Hot, drier parts of the island, up to an elevation of 3000 feet; common. Nom. vulg. "Badoolla-gass."

Arbor mediocris. *Folia* 3½–9 poll. longa, 1–2½ poll. lata, *petiolo* 4–6 lin. longo. *Drupæ* nuce avellana parum majores.

This species a good deal resembles *S. obscura,* but differs in its less coriaceous and paler leaves, and much smaller hypocarp.

5. **S. nigroviridis,** Thw.; *foliis* glabris, obovatis vel oblongis, obtuse brevi-acuminatis, basi angustatis, *petiolo* basi incrassato; *drupis* rotundatis vel obcordatis, obliquis, compressis, uncinato-apiculatis, *hypocarpio* (sicco) angustiore poculiformi compresso suffultis.—C.P. 631, 2444 (641, 2586).

HAB. Central Province, at an elevation of 2000 to 4000 feet.

Arbor mediocris. *Folia* intense viridia, 2½–6 poll. longa, 1½–2½ poll. lata, *petiolo* 3–8 lin. longo. *Drupæ* 8–10 lin. in max. diam.

Distinguished from the preceding species by its differently-shaped and darker-coloured leaves and larger, more compressed drupes. From *S. obscura* it differs principally in the shape of the fruit and the smaller hypocarp.

6. **S. acuminata,** Thw.; *foliis* glabris, ovato- vel oblongo-lanceolatis, longe acuminatis, basi angustatis, *petiolo* parum incrassato; *drupis* obcordatis, compressis, valde obliquis, uncinato-acuminatis, *hypocarpio* (sicco) multum angustiore poculiformi elongatulo suffultis.—C.P. 2676.

HAB. Forests in the Ratnapoora, Galle, and Ambagamowa Districts, at no great elevation.

Arbor mediocris. *Folia* 4–12 poll. longa, 1½–2½ lata, *petiolo* 4–10 lin. longo. *Drupæ* 1 poll. longæ, ¾ poll. in max. diam., *hypocarpio* ½ poll. longo.

Resembling *S. Gardneri* in many respects, but distinguished from it by its less coriaceous leaves, smaller panicles, and very differently-shaped fruit.

7. **S. coriacea,** Thw.; *foliis* glabris, obovatis vel obovato-oblongis,

Digitized by Google

valde coriaceis, apice rotundatis vel obscure obtuse acuminatis, basi plus minus angustatis, *petiolo costa*que robustis; *paniculis* folio brevioribus, rache brevi, ramis interrupte spicæformibus; *drupis* obcordatis, obliquis, compressis, mucronulatis; *hypocarpio* (sicco) mediocri, poculiformi.—C.P. 313, 635.

HAB. Central Province, at an elevation of 5000 to 7000 feet.

Arbor mediocris. *Folia* 3½–7 poll. longa, 1½–3½ poll. lata, *petiolo* 2–5 lin. longo. *Drupæ* 8 lin. in alt., 11 lin. in max. lat., *hypocarpio* 4½ lin. longo.

8. **S. parvifolia,** Thw.; *foliis* glabris, ovato-oblongis, abrupte obtuse acuminatis vel apice rotundatis, basi angustatis, coriaceis; *petiolo* superne sulcato, non incrassato; *paniculæ ramis* racemiformibus, paucifloris; *drupis* (immaturis) elongato-conicis, uncinato-acuminatis, parce obliquis, *hypocarpio* subæquilato poculiformi suffultis.—C.P. 3444.

HAB. Hinidoon Corle, in the Galle District. Nom. vulg. "Heen-badoolla-gass."

Arbor mediocris. *Folia* 1½–3½ poll. longa, ¾–1½ poll. lata, *petiolo* 3–6 lin. longo.

9. **S. Moonii,** Thw.; *foliis* magnis, glabris, coriaceis, lanceolatis, brevi-acuminatis, basi angustatis, brevi-petiolatis; *drupis* (immaturis) obliquis, oblongis, compressis, apiculatis, *hypocarpio* mediocri.—C.P. 3338.

HAB. South of the island, at no great elevation.

Arbor mediocris. *Folia* 6–12 poll. longa, 2–5 poll. lata, *petiolo* 1–3 lin. longo. *Paniculæ* elongatæ, multifloræ.

10. **S. obovata,** Moon, Cat. p. 22; *foliis* glabris, superne nitidis, obovatis, apice rotundatis vel abrupte obtuse acuminatis, ad basin angustatam rotundatis vel subcordatis, brevi-petiolatis; *drupis* (immaturis) oblongis, parce obliquis, apiculatis; *hypocarpio* (sicco) angustiore, elongatulo.—C.P. 3339.

HAB. Galtura, *Moon;* near Ratnapoora.

Arbor mediocris. *Folia* 3–7 poll. longa, 1¾–5 poll. lata; *petiolo* 1–2 lin. longo, incrassato.

11. **S. pubescens,** Thw.; *foliis* lanceolatis, acuminatis, basi subrotundatis, superne (costa excepta) glabris, subtus cum *costa petiolo*que incrassato pubescentibus; *paniculis* elongatis; *drupis* parvis.—C.P. 163.

HAB. Ratnapoora District, at no great elevation.

Arbor parva. *Ramuli* elongati, teretes, pubescentes. *Folia* 5–13 poll. longa, 1½–3 poll. lata, *petiolo* ½–1 poll. longo. *Drupæ* oblongæ, parce obliquæ, circiter 6 lin. longæ, 3 lin. latæ, *hypocarpio* brevi carnoso cupuliformi subæquilato suffultæ.

Sect. 2. *Paniculæ caulinæ.*

12. **S. marginata,** Thw.; *foliis* magnis, lanceolatis, conspicue membranaceo-marginatis, acuminatis, ad basin angustatis cordatisque, *petiolo* valde incrassato; *paniculis* caulinis, ramosis, delicatulis, pilosiusculis.—C.P. 2677.

Var. *α. glabra; foliis* glabris.

Var. *β. hirsuta; foliis* subtus pilis patentibus, rigidis hirsutis.

HAB. Damp forests in the Galle, Ratnapoora, and Ambagamowa Districts.

Frutex erectus, 6–8-pedalis, parce ramosus. *Folia* 6–14 poll. longa, 2½–5 poll. lata, *petiolo* ½–1½ poll. longo. *Drupæ* ovoideæ, obliquæ, parce compressæ, circiter

Digitized by Google

4 lin. longæ, rufescentes, *hypocarpio* æquilato dimidio breviore poculiformi coccineo suffultæ.

4. GLYCYCARPUS, Dalzell.

Hook. Journ. of Bot. vol. ii. (1850) p. 38.

1. **G. racemosa,** Dalz. l. c.; Hook. Icon. Pl. ix. t. 842.—C.P. 1260.
HAB. Very common, up to an elevation of 3000 feet. Nom. vulg. "Bala-gass."

Drupæ maturæ nigro-purpureæ. *Cotyledones* sæpissime purpureo-tinctæ.

5. BUCHANANIA, Roxb.

1. **B. angustifolia,** Roxb. (W. et A. Prod. i. 169, cum syn.; Wight, Icon. t. 101.)—C.P. 471, 1255.
HAB. North of the island, *Gardner;* Galagama.

Buchanania? Zeylanica, Bl. Mus. Bot. Lugd.-Bat. p. 185, is probably a state of *Mangifera Indica,* Linn., judging from the native name he has given of the plant.

6. CAMPNOSPERMA, Thw.

Hook. Journ. of Bot. vol. vi. p. 65. t. 1 *A.* Walpers, Ann. vol. iv. p. 444.

1. **C. Zeylanicum,** Thw., l. c.—C.P. 246.
HAB. Saffragam and Ambagamowa Districts, generally on the banks of streams, up to an elevation of 1000 feet.

7. ODINA, Roxb.

1. **O. Wodier,** Roxb. (W. et A. Prod. i. 171, cum syn.; Wight, Icones, t. 60.)—C.P. 1161.
HAB. Warmer parts of the island, up to an elevation of 1500 feet. Nom. vulg. "Hig- or Hik-gass."

A considerable quantity of gum exudes from the trunk of this tree, which the natives use as a medicinal plaster.

8. EVIA, Comm.

Blume, Mus. Bot. Lugd.-Bat. p. 234. *Spondias,* Auct. (*partim*).

1. **E. amara,** Comm. (Blume, l. c. cum syn.)—C.P. 1263.
HAB. Common, up to an elevation of 2000 feet. Nom. vulg. "Ambaralla-gass."

9. PROTIUM, Burm.

1. **P. caudatum,** W. et A. Prod. i. 176.—C.P. 1261.
HAB. Hot, drier parts of the island, at no great elevation.

10. SCUTINANTHE, Thw.

Hook. Journ. of Bot. vol. viii. (1856) p. 266. t. 8 *B.*

Flores abortu dioici. *Calyx* cupuliformis, carnoso-coriaceus, in seg-

Digitized by Google

mentis 5 erectis valvatis ad medium divisus, persistens. *Corolla* cum calyce æquilonga; *petalis* 5, erectis, valvatis, carnoso-coriaceis, persistentibus. *Stamina* 10; *filamentis* in annulum parte inferiore cum *disco* glanduloso interno et basi calycis corollæque consolidata cohærentibus, apice liberis; *antheris* oblongis, introrsis, dorso affixis. *Ovarium* biloculare, loculis biovulatis; *ovulis* collateralibus, axi affixis, amphitropis. *Stylus* brevissimus. *Stigma* disciforme. *Nuculania* carnosa; *putamine* mediocri, osseo, abortu monospermo. *Semen* pendulum; *testa* membranacea; *cotyledonibus* magnis, foliaceis, integris, plicato-rugosis; *radicula* parva.

1. **S. brunnea,** Thw., l. c.—C.P. 1149.

HAB. Central Province, at an elevation of 2000 to 3000 feet. Nom. vulg. "Maha-booloomora-gass."

Arbor 50–60-pedalis. *Ramuli*, cum foliis junioribus, rufo-tomentosi. *Folia* impari-pinnata, 10–20 poll. longa, exstipulata; *petiolo* superne sulcato, basi tumido, striato; *foliolis* 5–11, oblongis, parce obliquis, acuminatis, integris, 4–8 poll. longis, 2–3 poll. latis, rufescentibus, *petiolulo* 4 lin. longo. *Paniculæ* axillares, multifloræ, tomentosæ. *Flores* 3 lin. lati. *Nuculania* oblonga, rufo-tomentosa, utrinque attenuata, pollicaria.

11. CANARIUM, Linn.

1. **C. Zeylanicum,** Blume, Mus. Bot. Lugd.-Bat. p. 218, cum syn.—*C. balsamiferum*, Moon, Cat. p. 68.—C.P. 2649.

HAB. Warm, moister parts of the island, up to an elevation of 1500 feet. Nom. vulg. "Kaakoona-gass."

Stipulæ majusculæ, petiolares, a ramulo parum distantes, brevi-stipitatæ, obliquæ, rotundato-sagittatæ, cito deciduæ.

The resinous balsam, which exudes copiously from the trunk of this tree, is used by the natives for burning, after being mixed with paddy-chaff; and the smoke given off is reputed to drive away snakes from the domicile.

LVII. CHAILLETIACEÆ.

1. MOACURRA, Roxb.

1. **M. gelonioides,** Roxb. Fl. Ind. ii. 69.—C.P. 1245.

Var. β; *foliis* subtus plus minus tomentosis.—C.P. 1231.

HAB. Common in the moister parts of the island, and up to an elevation of 3000 feet.

I can find nothing to distinguish var. β from the other form of this species but its usually greater luxuriance of growth, and the tomentum, which varies exceedingly in amount, upon the ramuli and the under surface of its leaves.

LVIII. HOMALINEÆ.

1. BLACKWELLIA, Comm.

1. **B. Ceylanica,** Gardner, Calcutta Journ. of Nat. Hist. vol. vii. p. 452.—*B. tetrandra*, Wight, Icones, t. 1851.—C.P. 388.

HAB. Moister parts of the island, up to an elevation of 3000 feet. Nom. vulg. "Leeyang-gass."

Digitized by Google

Arbor 30–40-pedalis; *ramulis foliisque* junioribûs rubris. *Florum spicæ* sæpissime valde elongatæ, pendulæ.

The wood of this tree is strong, and useful for building purposes.

LIX. CONNARACEÆ.

1. ROUREA, Aub.

1. **R. santaloides,** W. et A. (Blume, Mus. Bot. Lugd.-Bat. p. 262, cum syn.)—C.P. 749.

HAB. Common, up to an elevation of 3000 feet. Nom. vulg. "Kerindi-wel."

2. CONNARUS, Linn.

1. **C. monocarpus,** Linn. (Blume, Mus. Bot. Lugd.-Bat. p. 265, cum syn.)—C.P. 323.

HAB. Very abundant in the hot, drier parts of the island. Nom. vulg. "Radaleya-gass."

2. **C. Championii,** Thw.; *ramulis foliisque novellis* cum *paniculis* rufo-nigro-furfuraceis; *foliis* 5–7-foliolatis; *foliolis* ellipticis, acuminatis; *folliculis* transverse rugulosis, glabris, subtruncato-obovatis, versus basin angustatis.—C.P. 2399.

HAB. Central Province, up to an elevation of 4000 feet.

Frutex scandens. *Foliola* 2½–4 poll. longa, 1½–2½ poll. lata; *petiolulo* incrassato, 2½ lin. longo. *Panicularum* rami ultimi racemiformes. *Pedicelli* breves. *Calycis laciniæ* oblongæ, externe furfuraceæ. *Petala* longiora, albida, rufo-punctata, parce pilosa. *Stamina* 10, basi coalita; 5 antherifera, cum totidem plus quam dimidio brevioribus, antheris effœtis alternantia. *Ovarium* rufo-pilosum.

3. **C. unifoliolatus,** Thw.; *foliis* glabris, petiolatis, 1-foliolatis; *foliolo* elliptico vel ovato, abrupte acuminato, reticulato; *petiolulo* brevi, tumido, rugulosulo; *paniculis* parvis, axillaribus, 1-, 2-, vel 3-nis, racemiformibus, paucifloris.—C.P. 2443.

HAB. Central Province, at an elevation of 3000 to 4000 feet; rather rare.

Arbor mediocris, 20–30-pedalis; *ramulis petiolisque* nigricantibus; *novellis* fusco-pilosis. *Foliola* 1¾–3½ poll. longa, 1–1¾ poll. lata; *petiolulo* 1 lin. longo, cum *petiolo* 3 lin. longo basi tumidulo articulato. *Paniculæ* 4–7-floræ, pallide fusco-hirsutæ; *bracteolis* linearibus, deciduis. *Flores* abortu dioici, pallide virides, circiter 3 lin. in exp., brevi-pedicellati, cum paniculæ ramorum apicibus articulati. *Calycis laciniæ* acutæ, *petalis* externe pilosis plus quam dimidio breviores. *Stamina* basi coalita; 5 antherifera, cum totidem brevibus anantheris dentiformibus alternantia. *Ovarium* strigosum, in *stylum* brevem attenuatum; *stigmate* dilatato. *Folliculi* (immaturi) fulvo-tomentosi, arcuato-falcati, acuti, basi in stipitem longum attenuati.

Digitized by Google

LX. LEGUMINOSÆ.

SUBORD. 1. *PAPILIONACEÆ.*

1. HEYLANDIA, DC.

1. **H. latebrosa,** DC. (W. et A. Prod. i. 180, cum syn.)—C.P. 1275.
HAB. Abundant in the Badulla District.

2. CROTALARIA, Linn.

(Nom. vernac. "Andanahiriya.")

1. **C. biflora,** Linn. (W. et A. Prod. i. 190, cum syn.)—C.P. 3325.
HAB. Hot, drier parts of the island, *Gardner.*

2. **C. prostrata,** Roxb. (W. et A., l. c. p. 189, cum syn.)—C.P. 1266 (*partim*).
HAB. Batticaloa District.

3. **C. ferruginea,** Grah. (Benth. Lond. Journ. of Bot. ii. 476, cum syn.)—C.P. 1265.
HAB. Central Province, up to an elevation of 4000 feet.

4. **C. evolvuloides,** W. et A. Prod. i. 188.—C.P. 1266 (*partim*).
HAB. Ceylon.

5. **C. bifaria,** Linn. (W. et A., l. c. p. 188, cum syn.; Wight, Icones, t. 30.)—C.P. 3593.
HAB. Central Province.

6. **C. multiflora,** Benth. l. c. p. 478; Walp. Rep. v. 437.—C.P. 1268.
HAB. Central Province, at an elevation of 3000 to 5000 feet.

7. **C. Wightiana,** Grah. (W. et A., l. c. p. 181.—? *C. scabrella,* W. et A., l. c.)—C.P. 2772.
HAB. Central Province, at an elevation of 1000 to 3000 feet.

A very variable species, and I suspect that *C. scabrella,* W. et A., is only a form of it.

8. **C. retusa,** Linn. (W. et A., l. c. p. 187, cum syn.)—C.P. 1274.
HAB. Very common, up to an elevation of 2000 feet. Nom. vulg. "Kaha-andanahirya-gass."

9. **C. verrucosa,** Linn. (W. et A., l. c. cum syn.; Wight, Icones, t. 200.)—C.P. 1273.
HAB. Abundant, up to an elevation of 3000 feet. Nom. vulg. "Nil-andanahirya," "Yak-bairiye."

10. **C. semperflorens,** Ventn. (Walp. Rep. v. 439, cum syn.)—C.P. 12 (280).
HAB. Central Province, at an elevation of 4000 to 7000 feet.

11. **C. juncea,** Linn. (W. et A., l. c. p. 185, cum syn.)—C.P. 1264.
HAB. Not uncommon, up to an elevation of 3000 feet. Nom. vulg. "Hanna."

The Cinghalese make cord of the strong fibre of this plant.

12. **C. lunulata,** Heyne, (W. et A., l. c. p. 183, cum syn.; Wight, Icones, t. 480.)—C.P. 1270 (1271).
HAB. Hot, drier parts of the island.

Digitized by Google

13. **C. calycina,** Schr. (Benth. l. c. p. 564, cum syn.; Walp. Rep. l. c. 441.)—C.P. 526.

Hab. Common on open, grassy places in the Central Province, at an elevation of 3000 to 6000 feet.

14. **C. Mysorensis,** Roth, (Benth. l. c. p. 566, cum syn.; Walp. l. c.) —C.P. 3594.

Hab. Batticaloa District.

15. **C. albida,** Heyne, (Benth. l. c. p. 567, cum syn.; Walp. l. c. 442.) —C.P. 269 (2482).

Hab. Central Province, in the Badulla and Maturatte Districts, at an elevation of 2000 to 4000 feet.

16. **C. linifolia,** Linn. (Walp. l. c. cum syn.)—C.P. 1277.

Hab. Near Galle, *Gardner*.

17. **C. nana,** Burm. (W. et A., l. c. p. 191, cum syn.)—C.P. 3301.

Hab. Hotter parts of the island, at no great elevation.

18. **C. umbellata,** Wight, (W. et A., l. c.)—C.P. 1276.

Hab. Central Province, at an elevation of 3000 to 4000 feet.

If my specimens are correctly named, they approach almost too near to *C. nana* to be considered other than a variety of that species; and *C. umbellata* is perhaps only the mountain form of *C. nana*. I find the seeds of the former fewer in number, as well as rather larger and more shining, than those of *C. nana*.

19. **C. medicaginea,** Lam. (W. et A., l. c. p. 192, cum syn.)—C.P. 1278.

Hab. Hot, drier parts of the island, up to an elevation of 1500 feet.

This species varies extremely, sometimes occurring quite erect, and sparingly branched, with more numerous flowers, and with leaves a good deal larger than are seen on the procumbent seaside form. Can *C. hernarioides*, W. et A., and *C. neglecta*, W. et A., be forms of it?

20. **C. laburnifolia,** Linn. (W. et A., l. c. p. 193, cum syn.)—C.P. 367.

Hab. Very common, up to an elevation of 3000 feet. Nom. vulg. "Yak-baireya."

21. **C. quinquefolia,** Linn. (W. et A., l. c. p. 194, cum syn.; var. *trifolia*.)—C.P. 1272.

Hab. Bintenne, *Gardner*.

22. **C. striata,** DC. (Walp. l. c. p. 449, cum syn.)—C.P. 3608.

Hab. Common on roadsides, in the Nandian District.

Crotalaria incana, *Linn.* (C.P. 1269), is a common weed in the Botanic Garden, but, no doubt, introduced.

3. PAROCHÆTUS, Ham.

1. **P. communis,** Ham. (Walp. Ann. iv. 478, cum syn.)—C.P. 2409.

Hab. Abundant in the Central Province, at an elevation of 4000 to 7000 feet.

Trifolium repens, *Linn.*, is becoming naturalized in the neighbourhood of Newera Ellia.

4. ROTHIA, Pers.

1. **R. trifoliata,** Pers. (W. et A. Prod. i. 195, cum syn.)—C.P. 1452.

Hab. Abundant in the hot, drier parts of the island.

Digitized by Google

5. INDIGOFERA, Linn.

(Nom. vernac. "Awaree.")

1. **I. linifolia,** Retz, (W. et A. Prod. i. 198, cum syn.; Wight, Icones, t. 313.)—C.P. 3514.
HAB. Banks of the Mahawelliganga, on the Lower Badulla Road from Kandy.

2. **I. cuneaphylla,** Linn. (W. et A., l. c. p. 199, cum syn.; Wight, Icones, t. 403.)—C.P. 2775.
HAB. Hotter parts of the island; not very common.

3. **I. aspalathoides,** Vahl, (W. et A., l. c. cum syn.; Wight, Icones, t. 332.)—C.P. 1455.
HAB. Hot, drier parts of the island.

4. **I. viscosa,** Lam. (W. et A., l. c. p. 200, cum syn.; Wight, Icones, t. 404.)—C.P. 1459.
HAB. Hot, drier parts of the island; very common.

5. **I. tenuifolia,** Rottb. (W. et A., l. c.)—C.P. 1462.
HAB. Bintenne and Trincomalee, *Gardner*.

6. **I. trita,** Linn. f. (W. et A., l. c. p. 203, cum syn.; Wight, Icones, t. 315, 386.)—C.P. 1463.
HAB. Common in the hot, drier parts of the island.

7. **I. trifoliata,** Linn. (W. et A., l. c. p. 201, cum syn.; Wight, Icon. t. 314.)—C.P. 3592.
HAB. Near Minnery, on the borders of the tank.

8. **I. paucifolia,** Delile, (W. et A., l. c. p. 201, cum syn.; Wight, Icones, t. 331.)—C.P. 1454.
HAB. North of the island, *Gardner*.

9. **I. flaccida,** Kœnig, (W. et A., l. c. p. 204, cum syn.)—C.P. 1460.
HAB. Haragam and other places on the Lower Badulla Road from Kandy.

10. **I. hirsuta,** Linn. (W. et A., l. c.)—C.P. 1456 (1457, 1458).
HAB. Very abundant in the hot, drier parts of the island.

11. **I. galegoides,** DC. Prod. ii. 225.—C.P. 1461.
HAB. Matele, *Gardner*.

12. **I. inamœna,** Thw.; *caule* erecto, suffruticoso, incano-strigoso, anguloso; *foliis* petiolatis, impari-pinnatis; *foliolis* 6–9-jugis, oblongis, recurvato-mucronulatis, basi angustatis, brevi-petiolulatis; *racemis* folio dimidio brevioribus, multifloris; *leguminibus* erectis, rostrato-apiculatis, teretibus, subcarinatis.—C.P. 3513.
HAB. Caloopahane, between Hapootelle and Balangodde, at an elevation of about 2000 feet.

Folia 1½–2½ poll. longa, *foliolis* 3–5 lin. longis, circiter 1½ lin. latis, stipulis stipellisque subulatis. *Legumina* 1–1¼ poll. longa, circiter 10-sperma. *Flores* parvi, purpurei. *Calycis* laciniæ subulatæ.

6. ACANTHONOTUS, Benth.

Hook. Niger Flora, p. 293. Walpers, Ann. vol. ii. p. 362.

1. **A. echinatus,** Benth. l. c.—*Indigofera echinata,* Willd.; W. et A. Prod. i. 198, cum syn.; Wight, Icones, t. 316.—C.P. 1453.
HAB. Common in the hot, drier parts of the island.

Digitized by Google

7. PSORALEA, Linn.

1. **P. corylifolia,** Linn. (W. et A. Prod. i. 198, cum syn.)—C.P. 1443.
HAB. Not uncommon in the hotter parts of the island.

8. SESBANIA, Pers.

1. **S. Ægyptiaca,** Linn. (W. et A. Prod. i. 214, cum syn.; Wight, Icones, t. 32.)—C.P. 1512.
HAB. Habarane, *Gardner.*

2. **S. aculeata,** Pers. (W. et A., l. c. cum syn.)—C.P. 1513.
HAB. Not uncommon, up to an elevation of 3000 feet.

9. TEPHROSIA, Pers.

1. **T. suberosa,** DC. (W. et A. Prod. i. 210, cum syn.; Wight, Illust. i. 198. t. 82.)—*Mundulea suberosa,* Benth.; Walp. Ann. iv. 491.—C.P. 1486.
HAB. On rocks, near the Temple at Damboul.

2. **T. tinctoria,** Pers. (W. et A., l. c. 211, cum syn.; Wight, Icones, t. 388.)—C.P. 1449.
HAB. Var. *a.* W. et A., l. c., Central Province, up to elev. 5000 feet. Var. *γ.* W. et A., l. c., near Matele, *Gardner.* Nom. vulg. "Aloo-pilla."

Although the extreme forms of this species vary so exceedingly in habit, degree of pubescence, and size of the leaflets, stipules, bracts, and calyx, it seems impossible, as Wight and Arnott remark, to separate them.

3. **T. maxima,** Pers. (W. et A., l. c. p. 213, cum syn.)—C.P. 1444.
HAB. Not uncommon in the warmer parts of the island.

4. **T. purpurea,** Pers. (W. et A., l. c. cum syn.)—C.P. 1445.
HAB. Very abundant in the warmer parts of the island. Nom. vulg. "Pilla."

The root of this plant is used as an anthelmintic for children.

5. **T. hirta,** Ham. in Linn. Trans. xiii. 546.
HAB. Hantain, *Gardner* (in Herb. Hook.).

6. **T. villosa,** Pers. (W. et A., l. c. p. 212, cum syn.)—C.P. 1447.
Var. *β. argentea.*—*T. argentea,* Pers.; W. et A., l. c. cum syn.—C.P. 1446.
HAB. Hot, drier parts of the island. Nom. vulg. "Boo-pilla."

Flores purpurei vel albidi.

I have never met with any plant in the island agreeing in character with Persoon's *T. senticosa.*

10. STYLOSANTHES, Sw.

1. **S. mucronata,** Willd. (W. et A. Prod. i. 218, cum syn.)—C.P. 1451.
HAB. Common towards the north of the island.

11. ZORNIA,* Gmel.

1. **Z. angustifolia,** Sm. (W. et A. Prod. i. 217, cum syn.)—C.P. 3598 (524 *partim*).

---

* Bentham (Martius, Fl. Bras. Leg. p. 82) includes under *Z. diphylla,* Pers., all the Ceylon species, viz.—No. 1, under var. *λ, vulgaris punctata,* and No. 2 and 3, under var. *μ, Zeylonensis.*

Digitized by Google

HAB. Not uncommon in the hot, drier parts of the island.

2. **Z. conjugata,** Sm.—*Z. Zeylonensis,* Pers.; W. et A., l. c. cum syn. —C.P. 3600.
HAB. Colombo.

The joints of the legume of this species are twice as long and broad as those of the preceding and following species.

3. **Z. Walkeri,** Arn. Pug. p. 12 (330); Walp. Rep. i. 726.—C.P. 3599 (524 *partim*).
HAB. Central Province, not uncommon, up to an elevation of 3000 feet.

Leguminis articuli parce inconspicue echinulati.
The few echinulations generally present upon the legume of this species do not project beyond its border, and are therefore easily overlooked.

12. SMITHIA, Ait.

1. **S. conferta,** Sm. (DC. Prod. ii. 323.)—*S. sensitiva,* var. β, W. et A. Prod. i. 220, cum syn.—C.P. 2777.
HAB. Common in damp, grassy places, in the warmer parts of the island.

2. **S. blanda,** Wall. (W. et A., l. c. 221; Wight, Icones, t. 986.)—*S. paniculata,* Arn. Pug. 12 (330.)—C.P. 58.
HAB. Central Province, at an elevation of 4000 to 7000 feet.

A very variable species as regards the size of the leaves and flowers, and the amount of pubescence upon the stems and calyces.

13. ÆSCHYNOMENE, Linn.

(Nom. vernac. "Deya-seyembala.")

1. **Æ. aspera,** Linn. (W. et A. Prod. i. 219, cum syn.; Wight, Icon. t. 299.)—C.P. 1514.
HAB. Common in the hotter parts of the island.

2. **Æ. Indica,** Linn. (W. et A., l. c. cum syn.; Wight, Icones, t. 405.) —C.P. 1515.
HAB. Very abundant in the warmer parts of the island.

14. ORMOCARPUM, Beauv.

1. **O. sennoides,** DC. (W. et A. Prod. i. 216, cum syn.; Wight, Icones, t. 297.)—C.P. 1438.
HAB. Hot, drier parts of the island; not uncommon.

15. URARIA, Desv.

1. **U. picta,** Desv. (W. et A. Prod. i. 221, cum syn.; Wight, Icones, t. 411.)—C.P. 1437.
HAB. Not rare in the hotter parts of the island.

2. **U. hamosa,** Wall. (W. et A., l. c. 222, cum syn.; Wight, Icones, t. 284.)—*D. rufescens,* DC. (fid. Benth.)—C.P. 3590.
HAB. Nilgalla, in the Badulla District.

3. **U. crinita,** DC.
HAB. Ceylon, *Walker* (*Hb. Hook.*).

Digitized by Google

16. DENDROLOBIUM, Benth.

Desmodium, Subgenus *Dendrolobium*, W. et A.

1. **D. umbellatum,** W. et A. Prod. i. 224, cum syn.; Walp. Ann. iv. 543.—C.P. 1436.
HAB. North of the island, *Gardner*.

2. **D. cephalotes,** W. et A., l. c. cum syn.; Wight, Icones, t. 373.—C.P. 2780.
HAB. Very common, up to an elevation of 3000 feet.

17. PHYLLODIUM, Desv.

Walpers, Ann. vol. iv. p. 544.

1. **P. pulchellum,** Desv.—*Dicerma pulchellum*, DC.; W. et A. Prod. i. 230, cum syn.; Wight, Icones, t. 418.—C.P. 1279.
HAB. Hot, drier parts of the island. Nom. vulg. "Hampinne."

18. DICERMA, DC.

1. **D. biarticulatum,** DC. (W. et A. Prod. i. 230, cum syn.; Wight, Icones, t. 419.)—C.P. 1450.
HAB. Hotter parts of the island.

19. PTEROLOMA, Desv.

1. **P. triquetrum,** Benth. (Walp. Ann. iv. 543.)—*Desmodium triquetrum*, DC.; W. et A. Prod. i. 224, cum syn.—C.P. 1431.
HAB. Central Province; abundant. Nom. vulg. "Bāloleyā."

20. CATENARIA, Benth. in Pl. Jungh. ii. 220.

1. **C. laburnifolia,** Benth. l. c. cum syn.; Walp. Ann. iv. 544.—C.P. 1435.
HAB. Central Province, at an elevation of 1500 to 3000 feet.

21. DESMODIUM, DC.

1. **D. triflorum,** DC. Prod. ii. 334, cum syn.; Wight, Icones, t. 292.—C.P. 2779.
HAB. Abundant, up to an elevation of 2000 feet. Nom. vulg. "Heen-oondoopeyelli."

This is valued as a medicine for the cure of dysentery.

2. **D. heterophyllum,** DC., l. c. cum syn.—*D. triflorum*, var. *a*, W. et A. Prod. i. 229; Wight, Icones, t. 291.—C.P. 2778.
HAB. Equally abundant with the last, from which it is certainly distinct. Nom. vulg. "Maha-oondoopeyelli."

3. **D. parvifolium,** DC. (W. et A., l. c. cum syn.)—C.P. 1429.
HAB. Central Province, at an elevation of 3000 to 5000 feet.

4. **D. polycarpon,** W. et A., l. c. 227, cum syn.
Var. *a. caulibus* adpresse pilosis; *bracteis* longe acuminatis; *leguminibus* hirsutis vel sæpe glaberrimis.—C.P. 1425.

Digitized by Google

Var. β. *caulibus* superne villosis ; *bracteis* lanceolatis, nec longe acuminatis.—C.P. 3512.

HAB. Central Province, up to an elevation of 5000 feet.

5. **D. ferrugineum,** Wall. Cat. 5732 *A.*—*D. rufescens,* W. et A., l. c. 228 (non De Candolle); Wight, Icones, t. 984.—C.P. 1426.

HAB. Central Province, up to an elevation of 4000 feet.

This, like the preceding species, varies much in the amount of pubescence upon the several parts, as well as in the relative length of the acumen of the bracteæ.

6. **D. gyrans,** DC. (W. et A., l. c. 227, cum syn.; Wight, Icones, t. 294.)—C.P. 1430.

HAB. Central Province, up to an elevation of 3000 feet.

7. **D. gyroides,** DC. (W. et A., l. c.)—C.P. 3326.

HAB. Pusalawa, in the Central Province, according to the statement of the Plant Collector, but I have never seen it truly wild in the island.

8. **D. latifolium,** DC. (W. et A., l. c. 225, cum syn.; Wight, Icones, t. 270, 272.)—C.P. 3588.

HAB. Near Bibili, in the Badulla District.

9. **D. Wightii,** Gr. (W. et A., l. c. 226; Arn. Pug. p. 13, 331.)—C.P. 3129.

HAB. Abundant in the warmer parts of the island, up to an elevation of 1500 feet.

10. **D. ormocarpoides,** DC.

HAB. Ceylon, *Gardner* (*Hb. Hook.*).

11. **D. podocarpum,** DC. Prod. i. 336 (non Hook. et Arn.)—C.P. 1434.

HAB. Central Province, up to an elevation of 4000 feet.

Flores parvi, albidi.

12. **D. strangulatum,** W. et A., l. c. 228; Wight, Icones, t. 985.—C.P. 1433.

Var. β. *minor; caule* villoso; *foliis* rotundato-rhomboideis, obtusis, minute apiculatis, lateralibus vix obliquis; *stipulis* villosis; *floribus* multo minoribus; *leguminibus* articulis minus constrictis.—C.P. 3329. An species distincta?

Flores (var. α) aurantiaco-rubri.

Desmodium Walkeri, Arn. Pug. p. 13, 331, C.P. 2973, appears to be identical with De Candolle's *Desm. cajanifolium,* and can scarcely have any claim to be considered indigenous to Ceylon.

22. PSEUDARTHRIA, W. et A.

1. **P. viscida,** W. et A. Prod. i. 209, cum syn.; Wight, Icones, t. 286.—C.P. 1432.

HAB. Common up to an elevation of 3000 feet.

23. ALYSICARPUS, Neck.

(Nom. vernac. "Aswenna.")

1. **A. vaginalis,** DC. (Walp. Ann. iv. 548, cum syn.)—C.P. 1428.

HAB. Abundant up to an elevation of 3000 feet.

2. **A. bupleurifolius,** DC. (W. et A. Prod. i. 233, cum syn.)—C.P. 1427.

Digitized by Google

HAB. Hot, drier parts of the island, *Gardner.*

3. **A. scariosus,** Grah.—*A. styracifolius,* W. et A., l. c. 234 (non DC.) —C.P. 3589.
HAB. Minnery tank.

4. **A. Heyneanus,** Wight.
HAB. Ceylon, *Walker* (*Hb. Hook.*).

24. DUMASIA, DC.

1. **D. villosa,** DC. Prod. ii. 241.—Var. β, *D. pubescens,* DC., l. c. Arn. Pug. p. 12, 330. *D. congesta,* Grah.; W. et A. Prod. i. 206; Wight, Icones, t. 445.—C.P. 663.
HAB. Common in the Central Province, at an elevation of 5000 to 7000 feet.

25. CLITOREA, Linn.

1. **C. Ternatea,** Linn. (W. et A. Prod. i. 205, cum syn.)—C.P. 1485.
HAB. Not uncommon in the Batticaloa District. Nom. vulg. "Nil-Kattarodoo."

26. SHUTERIA, W. et A.

1. **S. vestita,** W. et A. Prod. i. 207; Wight, Icones, t. 165.—C.P. 661.
HAB. Central Province, at an elevation of 4000 to 7000 feet.

27. SOJA, Mœnch.

1. **S. Wightii,** Grah. (Walp. Ann. iv. 552, cum syn.)—C.P. 1477.
HAB. Common up to an elevation of 2000 feet.

28. GALACTIA, P. Browne.

1. **G. tenuifolia,** W. et A. Prod. i. 206, cum syn.—C.P. 1468.
HAB. Central Province, up to an elevation of 3000 feet.

29. GLYCINE, Linn.

1. **G. labialis,** Linn. (W. et A. Prod. i. 208, cum syn.; Wight, Icones, t. 168.)—? *G. mollis,* W. et A., l. c.; Arn. Pug. p. 12, 330.—C.P. 1471.
HAB. Hotter parts of the island, up to an elevation of 2000 feet.

This is such a variable plant that I cannot help suspecting, judging from the description, that *G. mollis* of W. et A. is only a form of it.

30. CANAVALIA, DC.

(Nom. vernac. "Wal-awara.")

1. **C. obtusifolia,** DC. (W. et A. Prod. i. 253, cum syn.)—C.P. 1484.
HAB. Common near the sea-shore.

2. **C. gladiata,** DC. (W. et A., l. c. cum syn.; Wight, Icones, t. 753.) —C.P. 1481.
HAB. North of the island, *Gardner.*

Digitized by Google

3. **C. virosa,** W. et A., l. c. cum syn.—C.P. 2782.
HAB. Central Province, abundant up to an elevation of 3000 feet.

31. MUCUNA, Adans.

1. **M. monosperma,** DC. (W. et A. Prod. i. 254, cum syn.; Wight, Icones, t. 35.)—C.P. 2662.
HAB. Central Province, up to an elevation of 3000 feet.

2. **M. atropurpurea,** DC. (W. et A., l. c.)—C.P. 1483.
HAB. Not uncommon, up to an elevation of 2000 feet.

3. **M. gigantea,** DC. (W. et A., l. c.)—C.P. 3587.
HAB. Batticaloa? *Gardner.*

4. **M. prurita,** Hook. (W. et A., l. c. 255.)—Var. *β. pedunculis* brevibus, sæpissime 2-floris.—C.P. 3150.
HAB. Hot, drier parts of the island, not uncommon. Var. *a.* In exposed situations. Var. *β.* In shady places. Nom. vulg. "Aachāriya-paloo."

32. ERYTHRINA, Linn.

1. **E. Indica,** Lam. (W. et A. Prod. i. 260, cum syn.; Wight, Icones, t. 58.)—C.P. 1464.
HAB. Hot, drier parts of the island. Nom. vulg. "Errabadoo-gass."
This is used medicinally for men and cattle, and the young, tender leaves are eaten in curries.

2. **E. ovalifolia,** Roxb. Fl. Ind. iii. 254; Wight, Icones, t. 247.—C.P. 3499.
HAB. Hot, drier parts of the island. Nom. vulg. "Yak-errabadoo-gass."

33. BUTEA, Roxb.

1. **B. frondosa,** Roxb. (W. et A. Prod. i. 261.)—C.P. 1465.
HAB. Hot, drier parts of the island. Nom. vulg. "Gass-kaala."

34. STRONGYLODON, Vogel.

1. **S. ruber,** Vog. (Walp. Ann. iv. 559, cum syn.)—C.P. 1479.
HAB. Near Kornegalle, apparently quite wild.
Legumen oblongum, inflatum, membranaceum, marginatum, indehiscens, rostratum, stipitatum, 2¼–3 poll. longum, 1¼–1½ latum, 1–2-spermum, *stipite* ½ poll. longo. *Semina* ovoidea, lævia, nigra, 8–9 lin. longa, 7 lin. lata, *carunculo* rubro 1 lin. alto semicincta, *testa* coriacea, *cotyledonibus* duris crassis consolidatis.

35. PHASEOLUS, Linn.

(Nom. vernac. "Wal-maa.")

1. **P. Truxillensis,** H.B.K.—*P. rostratus,* Wall. (W. et A. Prod. i. 244, cum syn.; Wight, Icones, t. 34.)—C.P. 1480.
HAB. Warmer parts of the island.

2. **P. radiatus,** Linn. (W. et A., l. c. 246, cum syn.)—C.P. 1473.
HAB. Very abundant up to an elevation of 2000 feet.

Digitized by Google

3. **P. trinervius**, Heyne, (W. et A., l. c. 245, cum syn.)—C.P. 1476.
HAB. Central Province, up to an elevation of 4000 feet.

4. **P. trilobus**, Ait. (W. et A., l. c. 246, cum syn.; Wight, Icones, t. 94.)—C.P. 1474.
HAB. Common amongst grass in the hotter parts of the island, varying greatly in the shape of the leaflets.

5. **P. Grahamianus**, W. et A., l. c. 244.—C.P. 3586.
HAB. Batticaloa.

Bracteolæ minutæ, rotundatæ, membranaceæ, deciduæ. *Calyx* ciliatus, 1¼ lin. longus, *labio* superiore truncato emarginato, *laciniis* inferioribus brevibus subacutis. *Corolla* purpurea, circiter ½ poll. longa.

6. **P. semierectus**, Linn.—*Phas. psoralioides*, W. et A. Prod. i. 244; Wight, Icones, t. 249.—C.P. 3609.
HAB. Central Province.

36. VIGNA, Savi.

1. **V. vexillata**, Benth.—*V. carinalis*, Benth.; Walp. Rep. v. 538. —C.P. 2781.
HAB. Abundant in the Central Province, up to an elevation of 4000 feet.

2. **V. luteola**, Benth. MSS. An *Dolichos luteus*, Sw.?—C.P. 1482.
HAB. Not uncommon near the seacoast. Galle, *Gardner;* Colombo, *Ferguson.*

37. DOLICHOS, Linn.

1. **D. uniflorus**, Lam. (W. et A. Prod. i. 248, cum syn.)—C.P. 1475.
HAB. Central Province, *Gardner.*

2. **D. ciliatus**, Klein, (W. et A., l. c. 249, cum syn.)—C.P. 1469.
HAB. Hot, drier parts of the island.

3. **D. falcatus**, Klein, (W. et A., l. c. cum syn.)—C.P. 1472.
HAB. Hantani, *Gardner;* Batticaloa District.

38. LABLAB, Adans.

1. **L. vulgaris**, Savi, (W. et A. Prod. i. 250, cum syn.; Wight, Icones, t. 57, 203.)—C.P. 1470.
HAB. Common in the warmer parts of the island.

39. CAJANUS, DC.

1. **C. Indicus**, Spr. (W. et A. Prod. i. 256, cum syn.)—C.P. 720.
HAB. Ambagamowa, *Gardner.* Nom. vulg. "Rata-tora."

This is said to be not truly wild in the island, and the native name would also seem to indicate it.

40. DUNBARIA, W. et A.

1. **D. Heynei**, W. et A. Prod. i. 258.—*D. oblonga*, Arn. Pug. 15, (333.)—C.P. 1478.
HAB. Central Province; common, up to an elevation of 3000 feet.

Digitized by Google

41. ATYLOSIA, W. et A.

1. **A. Candollei,** W. et A. Prod. i. 257, cum syn.; Wight, Icones, t. 754.—? *A. major,* W. et A., l. c.—C.P. 55 (209, 224).
HAB. Very abundant amongst grass, in the Central Province, up to an elevation of 4000 feet. Nom. vulg. "Atta-tora."

2. **A. albicans,** Benth.—*Cantharospermum albicans,* W. et A., l. c. p. 256, cum syn.—C.P. 2783.
HAB. Hantani, *Gardner.*

3. **A. rugosa,** W. et A., l. c. p. 257.—C.P. 1441.
HAB. Central Province, up to an elevation of 5000 feet. Nom. vulg. "Wal-Cōlloo."

4. **A. scarabæoides,** Benth.—*Cantharospermum pauciflorum,* W. et A. 255, cum syn.—C.P. 1442.
HAB. Hot, drier parts of the island.

42. RHYNCHOSIA, Lour.

1. **R. cana,** DC. (W. et A. Prod. i. 240, cum syn.)—C.P. 1280.
HAB. Abundant in the warmer parts of the island.

2. **R. minima,** DC. (Prod. ii. 385, cum syn.)—*R. medicaginea,* DC., l. c. 386; W. et A., l. c. 238, cum syn.—C.P. 1440.
HAB. Jaffna, *Gardner.*

3. **R. rufescens,** DC. (W. et A., l. c. 239, cum syn.; Arn. Pug. p. 14, 332, n. 42.)—C.P. 1424.
HAB. Batticaloa District; common.

43. ABRUS, Linn.

1. **A. precatorius,** Linn. (W. et A. Prod. i. 236, cum syn.)—C.P. 1466.
HAB. Not uncommon in the hotter parts of the island. Nom. vulg. "Olinda-wel."

2. **A. pulchellus,** Wall.; *foliolis* lineari-oblongis, 7–10-jugis; *paniculis* terminalibus, longe pedunculatis, racemiformibus, *ramis* earundem subsecundis incrassatis curvatis, *pedicellos* serie continua diu gerentibus; *leguminibus* compressis, subfalcatis, brevi-rostratis, circiter 9-spermis.—C.P. 1467.
HAB. Not uncommon in the hot, drier parts of the island.

Frutex scandens, volubilis, plus minus adpresse pilosus. *Stipulæ stipellæ*que parvæ, lanceolato-subulatæ. *Calyx* campanulatus, minute 5-dentatus, pedicello subæquilongus, 1 lin. longus. *Corolla* calyce 3–4-plo longior, pallide purpurea. *Legumina* 1½–2½ poll. longa, 3½–4 lin. lata. *Semina* subrotundata, compressa, minute tuberculata, nigra, 2 lin. longa.

44. NOMISMIA, W. et A.

1. **N. nummularia,** W. et A. Prod. i. 237, cum syn.; Wight, Icones, t. 283.—C.P. 1439.
HAB. Jaffna, *Gardner.*

Digitized by Google

45. CYANOSPERMUM, W. et A.

1. **C. tomentosum,** W. et A. Prod. i. 260, cum syn.; Wight, Illust. i. p. 198. t. 81, 84.—C.P. 2471.
HAB. Central Province, at an elevation of 2000 to 3000 feet.

46. PYCNOSPORA, Brown, W. et A.

1. **P. nervosa,** W. et A. Prod. i. 197, cum syn.—C.P. 279.
HAB. Not uncommon up to an elevation of 2000 feet.

47. FLEMINGIA, Roxb.

1. **F. strobilifera,** Brown, (W. et A. Prod. i. 243, cum syn.; Wight, Icones, t. 267.)—C.P. 697.
HAB. Warmer parts of the island. Nom. vulg. "Hampilla."

2. **F. lineata,** Roxb. (W. et A., l. c. 242, cum syn.; Wight, Icones, t. 327.)—C.P. 1423.
HAB. Hot, drier parts of the island.

3. **F. congesta,** Roxb. (W. et A., l. c. 241, cum syn.; Wight, Icones, t. 390.)—C.P. 2663.
HAB. Ambagamowa District.

4. **F. semialata,** Roxb. (Fl. Ind. iii. p. 340; Wight, Icones, t. 326.) —C.P. 256, 3585.
HAB. Not uncommon in the warmer parts of the island.

48. PTEROCARPUS, Linn.

1. **P. Marsupium,** Roxb. (W. et A. Prod. i. 266, cum syn.)—C.P. 1495.
HAB. Central Province, up to an elevation of 3000 feet. Nom. vulg. "Gammāloo-gass."

The gum kino which exudes from the bark of this tree is used medicinally by the natives.

49. PONGAMIA, Linn.

1. **P. glabra,** Ventn. (W. et A. Prod. i. 262, cum syn.; Wight, Icones, t. 59.)—C.P. 1489 (1490).
HAB. Banks of rivers, common up to an elevation of 2000 feet. Nom. vulg. "Magool-karanda-gass."

50. DERRIS, Lour.

(Nom. vernac. "Calla-wel.")

The tough bark of the species of this and of some of the allied genera is used by the Cinghalese for making ropes.

1. **D. uliginosa,** Benth. (Walp. Ann. iv. p. 581.)—*Pongamia uliginosa,* DC.; W. et A. Prod. i. 262, cum syn.—C.P. 1494.
HAB. Hotter parts of the island.

2. **D. ovalifolia,** Benth., var.—*Pongamia ovalifolia,* W. et A. Prod. i. 262; Wight, Icones, t. 328.—C.P. 1493.
HAB. Hantani, Saffragam, and Ambagamowa Districts.

Digitized by Google

Scandens. *Foliola* ovata vel obovato-oblonga, apice rotundata vel abrupte brevi-acuminata, juniora rufescentia.

3. **D. sinuata,** Benth.; *foliolis* 3-jugis cum impari, ovatis vel ovato-lanceolatis, glabris, apice emarginatis, basi rotundatis; *paniculis* sæpissime terminalibus, elongatis, adpresse pilosis; *leguminibus* compressis, nitidis, reticulatis, rostrato-acuminatis, sæpe seminum abortu varie sinuatis, *margine* seminifera alata.—C.P. 1491.

Hab. Batticaloa, *Gardner;* Cattura District.

Scandens. *Foliola* 1–4 poll. longa, ¾–2 poll. lata; *petiolulis* incrassatis, 2½ lin. longis. *Pedicelli* calyce breviores. *Bracteolæ* minutæ, acutæ, cito deciduæ. *Corolla* pallide purpurea; *vexillo* orbiculari, emarginato; *alis* anguste lanceolatis, subfalcatis, carinam apice fissam arcte amplectentibus. *Stamina* diadelpha, 9 et 1; *antheris* oblongis. *Semina* oblonga, parce curvata.

51. BRACHYPTERUM, Benth.

1. **B. scandens,** W. et A. (Walp. Ann. iv. 579, cum syn.; Wight, Icones, t. 275.)—C.P. 1492.

Hab. Abundant in the hotter parts of the island.

2. **B. Benthamii,** Thw.; *foliolis* 2–3-jugis cum impari, oblongis, obtuse brevi-acuminatis, glabris; *paniculis* terminalibus, elongatis, adpresse pilosis, *ramis* racemiformibus; *pedicellis* solitariis; *leguminibus* oblongis, adpresse pilosis.—C.P. 2925.

Hab. Ooma Oya, on the Lower Badulla Road from Kandy.

Scandens. *Foliola* 1½–4½ poll. longa, ½–2 poll. lata, *petiolulo* 1½–2 lin. longo. *Pedicelli* calyce æquilongi. *Calyx* rubiginosus, antice brevi-3-dentatus. *Petala* pallide rosea. *Ovarium* circiter 4-ovulatum. *Legumina* 1–1¾ poll. longa, 6–7 lin. lata.

This species, in general appearance, closely resembles the preceding, but is sufficiently distinguished by the different character of the inflorescence and the width of the legumes.

3. **B. elegans,** Thw.; *foliolis* 3–4-jugis cum impari, ellipticis vel oblongis, abrupte brevi-acuminatis, glabris, subtus minutissime reticulatis; *paniculis* axillaribus terminalibusque, glabris, foliis subæquilongis, racemiformibus; *pedicellis* fasciculatis; *leguminibus* linearibus, apice rotundatis, oblique apiculatis, 1–2-spermis, glabris.—C.P. 2508.

Hab. Central Province, at no great elevation.

Scandens. *Foliola* 1½–2 poll. longa, ½–1 poll. lata, membranacea; *petiolulo* tenui, 2 lin. longo. *Pedicelli* 2 lin. longi. *Calyx* minute ciliatis, 1 lin. longus, antice brevi-3-dentatus, basi *bracteolis* 2 minutis lanceolatis ciliatis suffultus. *Ovarium* 2-ovulatum. *Legumina* 1¾–2¾ poll. longa, ½ poll. lata.

52. DALBERGIA, Linn.

1. **D. Mooniana,** Thw.—*D. Lanceolaria,* Moon's Cat. p. 51; *foliolis* 5–8, alternis, majusculis, ovatis vel oblongis, acuminatis, subtus pallidioribus minute reticulatis; *paniculis* terminalibus; *leguminibus* linearibus, marginatis, stipitatis, rostratis, 1–6-spermis, sæpe seminum abortu varie sinuatis.—C.P. 439.

Hab. Southern and central parts of the island, at no great elevation. Nom. vulg. "Nadoong-gass."

Arbor ingens. *Ramuli* albo-punctati. *Gemmæ* pilosæ. *Folia* glabra, rachi petiolisque pilosis, denique glabris. *Foliola* 2½–7 poll. longa, 1½–3 poll. lata,

Digitized by Google

petiolulo 1½ lin. longo. *Stipulæ* lanceolatæ, pilosæ, deciduæ, 2 lin. longæ. *Legumina* coriacea, lævia, obscure reticulata, 11 lin. lata, marginibus 1 lin. latis superiore crassiore.

This tree produces a very good timber, well adapted for furniture and for buildings.

2. **D. Championii,** Thw. — *Endespermum Zeylanicum*, Champion, MSS.; *foliolis* 2–4, alternis vel suboppositis, ellipticis acuminatis reticulatis, magnitudine valde variis, superne glabris, subtus fugaci pilosulis, *paniculis* terminalibus pilosis foliosis, leguminibus membranaceo-foliaceis, monospermis, lineari-lanceolatis, subacutis, stipitatis, adpresse pilosulis, medio reticulatis.—C.P. 761 (772).

HAB. Central Province, at an elevation of 1000 to 3000 feet.

Scandens. *Foliola* 2–6 poll. longa, 1–3 poll. lata; *petiolulo* tumidulo, ¼ poll. longo. *Flores* 3 lin. longi. *Calyx* albidus, ferrugineo-pilosulus, dentibus æquilongis, tubo duplo brevioribus, 2 sup. rotundatis, reliquis acutis. *Petala* albida, pallide rufo-venosa, longe unguiculata. *Stamina* 9, monadelpha. *Ovarium* longe stipitatum, 1-ovulatum.

This species is evidently very closely allied to Blume's *Endespermum scandens*.

3. **D. frondosa,** Roxb. (W. et A. Prod. i. 266, cum syn.)—C.P. 1496.

HAB. Not uncommon in forests, in the Central Province and elsewhere, up to an elevation of 3000 feet.

I have not met with any plants in Ceylon corresponding with the descriptions of *Dalbergia Lanceolaria*, Linn. f., and *Dalbergia Zeylanica*, Roxb.

4. **D. monosperma,** Dalzell.—C.P. 243.

HAB. Ceylon, *Walker* (in Herb. Hook.).

53. SOPHORA, Linn., R. Br.

1. **S. tomentosa,** Linn. (W. et A. Prod. i. 179, cum syn.; Walp. Ann. iv. 586, cum syn.)—C.P. 1487.

HAB. Seacoast, in the Galle District. Nom. vulg. "Moodoomoroonga."

2. **S. heptaphylla,** Linn. (Walp. Ann. l. c.; Wight, Icones, t. 1155.) —C.P. 570.

HAB. Central Province, at an elevation of 4000 to 7000 feet.

3. **S. violacea,** Thw.; *foliolis* 7–12-jugis cum impari, ellipticis, obtusis, brevissime mucronulatis, pilosulis, subtus pallidioribus; *racemis* terminalibus, multifloris, adpresse pilosis, folio subæquilongis; *leguminibus* pilosulis, valde constrictis, nodis ovoideis.—C.P. 3546.

HAB. Galle District, between Dickwelle and Matura.

Frutex mediocris. *Ramuli petiolique* adpresse pilosi. *Stipulæ bracteæ*que minutæ, subulatæ, deciduæ. *Foliola* 6–15 lin. longa, 3–7 lin. lata, *petiolulo* ½–1 lin. longo. *Calyx* tubulosus, margine 5-lobus, pedicello æquilongo oblique affixus. *Petala* violacea, longe unguiculata, *vexillo* distante recurvato, *alis* carina angustioribus longioribusque. *Ovarium* circiter 7-ovulatum. *Semina* ovoidea, rubra.

SUBORD. 2. *CÆSALPINIEÆ*, R. Br.

54. GUILANDINA, Linn.

1. **G. Bonduc,** Linn. (W. et A. Prod. i. 280, cum syn.)—C.P. 1524.

Digitized by Google

HAB. Common up to an elevation of 3000 feet. Nom. vulg. "Koombooroo-wel."

Every part of this plant is used medicinally by the natives.

55. CÆSALPINIA, Linn.

1. **C. paniculata,** Roxb. (W. et A. Prod. i. 281; Wight, Icones, t. 36.)—C.P. 1525.

HAB. Common up to an elevation of 3000 feet. Nom. vulg. "Deya-wawool-atteya."

2. **C. digyna,** Rottl. (W. et A., l. c. cum syn.)—C.P. 1527.

HAB. Kornegalle, *Gardner*.

3. **C. mimosoides,** Lam. (W. et A., l. c. cum syn.; Wight, Icones, t. 392.)—C.P. 3601 (2784 *partim*).

HAB. Abundant in the warmer parts of the island. Nom. vulg. "Goda-wawool-atteya."

4. **C. sepiaria,** Roxb. (W. et A., l. c. 282, cum syn.; Wight, Icones, t. 37.)—C.P. 3602 (2784 *partim*).

HAB. Abundant up to an elevation of 3000 feet.

56. TAMARINDUS, Linn.

1. **T. officinalis,** Hook. (Walp. Ann. iv. 595, cum syn.)—Var. *a*, *F. Indica*, DC.—C.P. 1501.

HAB. Hot, drier districts of the island, but probably not truly indigenous to Ceylon. Nom. vulg. "Seyembala."

The ripe fruit is used as a condiment for curries: a decoction of the fresh leaves is employed as a detergent for foul wounds and sores.

57. CASSIA, Linn.

1. **C. Fistula,** Linn. (W. et A. Prod. i. 285, cum syn.; Walp. Ann. iv. 595, cum syn.)—*C. rhombifolia*, Roxb. Fl. Ind. ii. 334; Wight, Icones, t. 269.—C.P. 1502.

HAB. Very abundant in the hot, drier parts of the island. Nom. vulg. "Ahalla-gass."

Every part is used medicinally by the Cinghalese as a purgative. The heart of the tree yields a good timber.

2. **C. Roxburghii,** DC. (W. et A., l. c. 286, cum syn.; Wight, Illust. i. 198. t. 83.)—C.P. 1505.

HAB. Frequently growing with the preceding, and is equally abundant. Nom. vulg. "Ratoo-waa."

3. **C. tomentosa,** Linn. f. (W. et A., l. c. cum syn.; Walp. Ann. iv. 596, cum syn.)—C.P. 2410.

HAB. Newera Ellia, at an elevation of 7000 feet.

4. **C. Sophera,** Linn. (W. et A., l. c. 287, cum syn.)—C.P. 1507.

HAB. Hotter parts of the island; not uncommon. Nom. vulg. "Ooroo-tora."

5. **C. occidentalis,** Linn. (W. et A., l. c. 290, cum syn.)—C.P. 1262.

HAB. Very abundant up to an elevation of 2000 feet. Nom. vulg. "Penni-tora."

Digitized by Google

The tender leaves of this and the next species are eaten by the Cinghalese in their curries.

6. **C. Tora,** Linn. (W. et A., l. c. cum syn.; Walp. Ann. l. c. cum syn.)—C.P. 2785.

HAB. Very abundant on roadsides, etc.

7. **C. glauca,** Linn. (W. et A., l. c. p. 289, cum syn.; Walp. l. c. p. 597, cum syn.)—C.P. 1526.

HAB. Colombo, *Moon*. Nom. vulg. "Wal-ahalla-gass."

8. **C. auriculata,** Linn. (W. et A., l. c. p. 290, cum syn.)—C.P. 1503.

HAB. Abundant in many parts of the island near the seacoast. Nom. vulg. "Ranawarā."

A decoction or infusion of the leaves of this plant is much esteemed as a cooling medicine by the Cinghalese.

9. **C. florida,** Vahl, (W. et A., l. c. p. 288, cum syn.; Walp. Ann. iv. 597, cum syn.)—C.P. 3485.

HAB. Banks of rivers, in the Central Province, up to an elevation of 2000 feet. Nom. vulg. "Waa-gass."

The wood of this tree is extremely hard and durable.

10. **C. Timoriensis,** DC. Prod. ii. 499; Walp. l. c. cum syn.—C.P. 1504.

HAB. Not uncommon in the warmer parts of the island. Nom. vulg. "Arramana."

11. **C. Absus,** Linn. (W. et A., l. c. p. 291, cum syn.; Walp. l. c. p. 598, cum syn.)—C.P. 1506.

HAB. Very common amongst high grass, up to an elevation of 3000 feet. Nom. vulg. "Boo-tora."

12. **C. mimosoides,** Linn. (DC. Prod. ii. 503; Walp. Rep. i. 837; Walp. Ann. iv. 598.)—C.P. 1510.

Var. γ. *villosula;* tota planta pilis longis subpatentibus flavis sparse tecta; *foliis* patello majoribus, aristato-mucronatis.—C.P. 3603. An species distincta?

HAB. Abundant amongst high grass, in exposed situations, up to an elevation of 4000 feet. Var. γ. Maturatte District.

Var. γ is probably a distinct species; the bracteolæ near the apex of the pedicel are nearer to the base of the flower than in the typical form of *C. mimosoides,* and the petiolar gland is a little below instead of between the last pair of leaflets.

13. **C. Wallichiana,** DC.; *caule* erecto, rigido, parce ramoso; *foliolis* 20–25-jugis, oblongo-linearibus, aristato-mucronatis; *glandula* paulo supra medium petioli subsessili; *pedicellis* supra-axillaribus, fasciculatis; *staminibus* 10, valde inæqualibus.—C.P. 2786.

HAB. Open, grassy places in the Central Province. Hantani, *Macrae*. Haragam, near Kandy. Nom. vulg. "Bin-seyembala."

Caulis teres, 1–4-pedalis, pilosulus. *Foliola* glabra, margine ciliolata, 5–9 lin. longa, 1–1½ lin. lata. *Fasciculi* circiter 4-flori, *pedicellis* 2–4 lin. longis. *Calyx* pilosulus. *Petala* basi interne, cum staminibus partim, rufo-tincta. *Legumina* pilosula.

Sufficiently distinguished from the preceding species by the darker colour of the stems and foliage, the much larger leaves, shorter pedicel, and different shape and position of the petiolar gland.

14. **C. Kleinii,** W. et A., l. c. p. 293, cum syn.; Walp. Rep. i. 837.—C.P. 1508 (1509).

Digitized by Google

Var. β. *pilosa;* planta tota patentim dense pilosa.
HAB. Abundant in similar situations to the last. Var. β. Hantani District. Nom. vulg. "Bin-seyembala."

CASSIA ALATA, *Linn.*, has become naturalized in various parts of the island.

58. JONESIA, Roxb.

1. **J. Asoka,** Roxb. (W. et A. Prod. i. 284, cum syn.; Wight, Icon. t. 206; Walp. Ann. iv. 609.)—C.P. 653.
HAB. Sides of streams, under the shade of larger trees, up to an elevation of 3000 feet. Very abundant in the Bintenne District. Nom. vulg. "Deya-ratmal."

59. HUMBOLDTIA, Vahl.

1. **H. laurifolia,** Vahl, (W. et A. Prod. i. 285, cum syn.; Wight, Icones, t. 1605.)—C.P. 328.
HAB. Very abundant in the Ambagamowa and Ratnapoora Districts, on the shady banks of streams. Nom. vulg. "Gal-karanda."

60. DIALIUM, Linn.

1. **D. ovoideum,** Thw.; *foliolis* bijugis, suboppositis, cum impari, lanceolatis, apice retusis, superne glabris, subtus sparse minutissime puberulis; *paniculis* terminalibus adpresse incano-pilosis, *folio* longioribus; *bracteolis* lanceolatis, cito deciduis; *sepalis* lanceolatis; *legumine* ovoideo, parce compresso, subsessili, 1–2-spermo, velutino.—C.P. 3149.
HAB. Districts north of Kandy, at no great elevation. Nom. vulg. "Gal-seyembala-gass."

Arbor ingens, ramulis rugosulis. *Foliola* 2–3 poll. longa, ¾–1¼ lata, *petiolulo* tumidulo 2 lin. longo. *Flores* albidi, circiter 3 lin. longi, *pedicellis* parum longiores. *Antheræ* oblongæ, extrorsæ, in anthesi filamentis subæquilongæ. *Ovarium* in disco annulari viridi sessile, 2-ovulatum; *stylo* subulato, apice obtusiusculo. *Legumen* atro-brunneum, 7–8 lin. longum, 5–6 lin. latum. *Semina* rotundata, compressa, striata, nitida, ochraceo- vel rufo-brunnea, 4 lin. longa.

The fruit of this species is of an agreeable acid flavour, and is sold in the bazaars. The wood is strong and handsome, and well adapted for ornamental furniture.

61. CYNOMETRA, Linn.

1. **C. ramiflora,** Linn. (W. et A. Prod. i. 293; Walp. Ann. iv. 601.) —C.P. 1500.
Var. α; *foliolis* omnibus 1-jugis.—C.P. 3604.
Var. β. *heterophylla; foliolis* versus basin innovationum 2-jugis, versus apicem 1-jugis.
HAB. Var. α. Batticaloa District. Var. β. Trincomalee, *Gardner*. Caltura District. Nom. vulg. "Gal-mendora-gass."

Not having been so fortunate as to obtain the flowers or fruit of var. α, I am unable to determine whether var. β is really distinct, as a species, from it, but I almost suspect it will prove so, the leaflets being much less acuminated, and slightly different in other respects.

Digitized by Google

62. BAUHINIA, Linn.

1. **B. tomentosa,** Linn. (W. et A. Prod. i. 295, cum syn.; Walp. Ann. iv. 602, cum syn.)—C.P. 1498.

HAB. Hot, drier parts of the island. Nom. vulg. "Kaha-pettang."

63. PILIOSTIGMA, Hochstett.

1. **P. racemosum,** Benth. (Walp. Ann. iv. 607, cum syn.)—*Bauhinia racemosa,* Lam.; W. et A. Prod. i. 295, cum syn.—C.P. 1497.

HAB. Very abundant in the hot, drier parts of the island. Nom. vulg. "Myla-gass."

The bark of this tree is very tough, and is made into ropes by the Cinghalese. The leaves are a very favourite food of the elephant.

SUBORD. 3. *MIMOSEÆ.*

64. ENTADA, Adans.

1. **E. scandens,** Benth. (Hook. Journ. of Bot. iv. 332.)—*E. Pursætha,* DC.; W. et A. Prod. i. 267, cum syn.—C.P. 2661.

HAB. Very abundant, up to an elevation of 2000 feet. Nom. vulg. "Poos-wel."

The tough bark of this plant is used for making cord and ropes: the juice of the leaves is employed for stupefying fish.

65. ADENANTHERA, Linn.

1. **A. pavonina,** Linn. (W. et A. Prod. i. 271, cum syn.)—C.P. 3605.

HAB. Warmer parts of the island; very common, but generally in or near native gardens. Nom. vulg. "Madateya-gass."

2. **A. bicolor,** Moon's Cat. p. 34 (sine syn.); *foliis* bipinnatis, glabris; *pinnis* distantibus, 1–3-jugis, suboppositis, apiculo parvo terminatis, 6–8-foliolatis; *foliolis* alternis, ovato-lanceolatis, minute apiculatis; *leguminibus* linearibus, varie contortis; *seminibus* rotundatis, compressis, nitidis, dimidiato-bicoloribus.—C.P. 324.

HAB. Not uncommon in the south of the island, at no great elevation. Nom. vulg. "Mas-moroo-gass."

Arbor mediocris, 15–20-pedalis. *Ramuli* teretes, glabri, nitidi, infra nodos bicallosi, cum racemis foliorumque rachi, atro-rubri. *Petioli* basi tumidi, superne minute glandulosi, subsulcati. *Stipulæ* minutissimæ, subulatæ. *Foliola* 1–1½ poll. longa, 6–9 lin. lata, superne nitida, *subtus* opaca, pallidiora, rufescentia, costa nervisque rubris, *petiolulo* tumidulo 1 lin. longo. *Racemi* axillares, multiflori, folio multum breviores, parce fugaci-pilosi. *Pedunculi* 1½ lin. longi, infra medium articulati, basi 1-bracteolati. *Flores* glabri, rubri, 1 lin. longi. *Calyx* minutus, acute 5-dentatus. *Petala* lanceolata. *Stamina* glandula terminali alba, polline flavo. *Ovarium* stipitatum, circiter 10-ovulatum. *Legumina* 5–6 lin. lata. *Semina* 4 lin. in diam., coccinea, dimidio apicali nigro, *funiculo* 2 lin. longo.

66. DESMANTHUS, Benth.

Hook. Journ. of Bot. vol. iv. p. 356.

1. **D. virgatus,** Willd. (W. et A. Prod. i. 270, cum syn.; Walp. Ann. iv. 614, cum syn.)—C.P. 3606.

HAB. Peradenia, *Alwis*. Probably introduced.

Digitized by Google

67. NEPTUNIA, Lour.

1. **N. oleracea,** Lour. (Benth. in Hook. Journ. of Bot. iv. 354; Walp. Rep. i. 863, cum syn.)—C.P. 1516.
HAB. Very common in shallow water, and on the borders of tanks in the hotter parts of the island. Nom. vulg. "Gass-nidi-koomba."

MIMOSA PUDICA, *Linn.*, is become quite naturalized, and a troublesome weed in some parts of the island.

68. DICHROSTACHYS, DC.

1. **D. cinerea,** W. et A. Prod. i. 271, cum syn.; Benth. in Hook. Journ. of Bot. iv. 353; Wight, Icones, t. 357.—C.P. 1523.
HAB. Abundant in the hot, drier parts of the island. Nom. vulg. "Andara-gass."

69. ACACIA, Willd.

1. **A. eburnea,** Willd. (W. et A. Prod. i. 276, cum syn.; Benth. in Lond. Journ. of Bot. i. 501; Walp. Rep. i. 912.)—C.P. 1521.
HAB. North of the island, *Gardner*.

2. **A. tomentosa,** Willd. (W. et A., l. c.; Benth. l. c.; Walp. Rep. l. c.)—C.P. 744.
Hab. North of the island, *Gardner*.

3. **A. leucophlœa,** Willd. (W. et A., l. c. p. 277, cum syn.; Benth. l. c. 503; Walp. l. c.)—C.P. 1520.
HAB. Hot, drier parts of the island. Nom. vulg. "Katoo-andara-gass."

4. **A. Catechu,** Willd. (W. et A., l. c. p. 272, cum syn.)—C.P. 3547.
HAB. Hot, drier parts of the island. Nom. vulg. "Rat-kihiri-gass."

An infusion of the wood of this tree is much esteemed by the Cinghalese as a purifier of the blood; and drinking-cups are often made of it.

5. **A. concinna,** DC. (Benth. l. c. p. 514; Walp. l. c. p. 916; W. et A., l. c. p. 277, cum syn.)—C.P. 1519.
HAB. Very common, up to an elevation of 3000 feet. Nom. vulg. "Hingooroo-wel."

6. **A. Intsia,** Willd. (Benth. l. c. p. 515; Walp. l. c.; W. et A., l. c. p. 278.)—C.P. 3607 (1519 *partim*).
HAB. Hot, drier parts of the island.

7. **A. pennata,** Willd. (Benth. l. c. p. 516; Walp. l. c. p. 917; W. et A., l. c. p. 277, cum syn.)—C.P. 3300.
HAB. Haragam, near Kandy.

My specimens of this plant are nearly free from prickles.

ACACIA FARNESIANA, *Willd.*, has become quite naturalized, and very abundant in some of the hotter parts of the island.

70. ALBIZZIA, Durazzini, Benth.

1. **A. Lebbek,** Benth. Hook. Journ. of Bot. iii. 87; Walp. Rep. v. 596.—*Acacia speciosa*, Willd.; W. et A. Prod. i. 275, cum syn.—C.P. 3130.

Digitized by Google

HAB. Anooradhapoora, *Mr. Brodie*; banks of the Ooma Oya, in the Badulla District.

2. **A. odoratissima,** Benth. l. c. p. 88; Walp. l. c.—*Acacia odoratissima*, Willd.; W. et A., l. c. cum syn.—C.P. 1529.

HAB. Warmer parts of the island, up to an elevation of 2000 feet. Nom. vulg. "Hooree-mārā-gass."

3. **A. amara,** Boivin, (Benth. l. c. p. 90; Walp. l. c. p. 597.)—*Acacia amara*, Willd.; W. et A., l. c. p. 274, cum syn.—C.P. 1518.

HAB. North of the island, *Gardner*.

4. **A. stipulata,** Benth. l. c. p. 92; Walp. l. c. p. 598, cum syn.—*Acacia stipulata*, DC.; W. et A., l. c.—C.P. 1517.

HAB. Warmer parts of the island, up to an elevation of 2000 feet. Nom. vulg. "Cabal-mārā-gass."

71. PITHECOLOBIUM, Martius.

Sectio *Concordia*, Benth. in Hook. Journ. of Bot. vol. iii. p. 202.

1. **P. geminatum,** Benth. l. c.; Walp. Rep. v. 611.—*Inga geminata*, W. et A. Prod. i. 269, cum syn.—C.P. 1531.

HAB. Jaffna, *Gardner*; Bintenne District.

2. **P. umbellatum,** Benth. l. c.; Walp. l. c.—*Inga umbellata*, Willd.; W. et A., l. c. p. 270, cum syn.—C.P. 1530.

HAB. North of the island, *Gardner*; Teldenia.

Sectio *Clypearia*, Benth. l. c. p. 207.

3. **P. bigeminum,** Mart. (Benth. l. c.; Walp. l. c.)—*Inga bigemina*, Willd.; W. et A., l. c. p. 269, cum syn.—C.P. 644.

HAB. Very abundant in the warmer parts of the island, and up to an elevation of 4000 feet. Nom. vulg. "Calateya-gass."

Legumina interne flavo-rufa. *Semina* oblonga, 7 lin. longa, 5 lin. lata; *testa* membranacea, nigra, subnitida, interne fusca; *funiculo* tenui, nigro, 2 lin. longo. *Embryo* mollis, graveolens; *cotyledonibus* crassis, *radiculam* includentibus, basi fissis.

4. **P. subcoriaceum,** Thw.; *ramulis, paniculis petiolis*que fusco-puberulis; *pinnis* 3-jugis; *foliolis* 15–20-jugis, subcoriaceis, lineari-oblongis, basi apiceque valde obliquis, subtus fusco-puberulis; *glandulis* clypeiformibus; *petiolaribus* sæpissimo 2, inter se et petioli basi apiceque distantibus; *jugalibus* solitariis, inter pinnarum paria mediis.—C.P. 337.

HAB. Central Province, at an elevation of 4000 to 6000 feet; not uncommon. Nom. vulg. "Meemini-mārā."

Arbor ingens, 30–40-pedalis. *Ramuli* subangulati. *Foliola* 2–7 lin. longa, 1¼–2 lin. lata, subtus pallidiora. *Capitula* 3–12-flora. *Flores* puberuli, pallide virides, 1-bracteolati. *Corolla calyce* tubuloso 5-dentato plus duplo longior. *Stamina* numerosa, longe exserta. *Ovarium* longe stipitatum, pubescens. *Legumen* puberulum, cochleatum, circiter 6-spermum.

LXI. ROSACEÆ.

1. PHOTINIA, Lindl.

1. **P. Notoniana,** W. et A. Prod. i. 302; Wight, Illust. t. 86; Icones, t. 991.—C.P. 136.

Digitized by Google

Hab. Central Province, at an elevation of 6000 to 7000 feet.

The usually bilocular ovary of this plant would seem to distinguish it principally from *Photinia integrifolia* of Lindley, in which the ovary is said to be "semper triloculare."

2. RUBUS, Linn.

Sect. 1. *Foliis pinnatis.*

1. **R. lasiocarpus,** Smith, (W. et A. Prod. i. 299, cum syn.; Wight, Icones, t. 232.)—C.P. 1533, 1534.

Var. *β. subglaber.*—*R. leucocarpus,* Arn. Pug. p. 16 (334); Walp. Rep. ii. p. 19.

Hab. Central Province, up to an elevation of 6000 feet.

This species, like many other plants previously referred to, has, when growing in the more elevated districts of the island, somewhat larger flowers than when it occurs nearer the level of the sea.

Sect. 2. *Foliis 3-foliolatis.*

2. **R. flavus,** Ham. (Don, Prod. Fl. Nep. 234; DC. Prod. ii. 559.) —*R. Goureephul,* Roxb.; W. et A., l. c. 298, cum syn.; Wight, Icones, t. 230.—C.P. 2596.

Hab. Central Province, at an elevation of 4000 to 7000 feet.

Sect. 3. *Foliis simplicibus.*

3. **R. rugosus,** Smith, (W. et A. l. c.)

Var. *α*; *bracteis* ovatis, integris vel ad apicem plus minus inciso-dentatis; *fructibus* parvis, rubris. *Wight, Icones, t.* 225.—C.P. 2765.

Var. *β*; *foliis* minoribus acutioribusque; *stipulis bracteisque* profunde capillaceo-incisis; *petalis* parvis; *fructibus* mediocribus, atro-rubentibus.—*R. micropetalus,* Gardn. in Calc. Journ. of Nat. Hist. vol. viii. p. 6.—C.P. 1536, 1537.

Var. *γ*; *tomento* pallido; *foliis* valde coriaceis rugosisque; *stipulis bracteis*que plus minus profunde incisis; *paniculis* densis; *calycis* lobis ovato-lanceolatis, conspicue dentatis; *fructibus* mediocribus, atro-sanguineis.—*R. Fairholmianus,* Gardner, l. c. p. 5.—C.P. 134.

Var. *δ*; *aculeis* brevibus; *stipulis bracteis*que plus minus profunde incisis vel inciso-dentatis; *paniculis* paucifloris; *floribus* majoribus; *petalis* calyce subæquilongis; *fructibus* majoribus nigris.—*R. macrocarpus,* Gardner, l. c. p. 7.—C.P. 1535.

Hab. Var. *α*. Not uncommon at an elevation of 1000 to 5000 feet. Var. *β*. Rambodde, at 5000 feet. Var. *γ*. Bopatalawe Plains (*Gardner*), and Oova District, at 6000 feet. Var. *δ*. Newera Ellia, etc., at 6000 to 7000 feet.

The most characteristic forms of the above varieties might, in a less variable genus, pass very well for species; but, after an examination of numerous specimens, I find it quite impossible to draw up such distinctive definitions of them as could with propriety be considered specific, and therefore think it safer to describe them as forms of one variable species, which I believe them to be.

3. POTENTILLA, Linn.

1. **P. Mooniana,** Wight, Icones, t. 233.—? *P. polyphylla,* Wall. Cat. 1026; Lehm.; Walp. Rep. ii. p. 30.—C.P. 2767.

Digitized by Google

HAB. Horton Plains, at an elevation of 7000 feet.

Herba perennis, stolonifera. *Caules* suberecti, elongati, patentim pilosi. *Folia* interrupte pinnata, pilosa. *Foliola* numerosa, (majora oblonga, minora orbicularia,) subsessilia, acute dentata, subtus pallidiora, costa venisque longe adpresse pilosis. *Achenia* lævia.

•In my specimens of this plant the bracteolæ are entire and smaller than the calyx-lobes, and not, as in Dr. Wight's figure, larger and toothed. *P. polyphylla*, Wall., would seem to differ principally in being quite glabrous and in the leaflets being crenately and not acutely toothed. *P. splendens*, Don, Prod. Fl. Nep. p. 230, is evidently closely allied to these.

2. **P. Kleiniana,** W. et A. Prod. i. 300; Wight, Illust. t. 85.—C.P. 2768.

HAB. Central Province, at an elevation of 6000 to 7000 feet.

4. AGRIMONIA, Tournef.

1. **A. Eupatoria,** Linn. (Wight, Icon. t. 224.)—*A. Zeylanica*, Moon's Cat. p. 37.—C.P. 2769.

HAB. Central Province, at an elevation of 5000 to 7000 feet.

5. ALCHEMILLA, Tournef.

1. **A. vulgaris,** Linn. (Wight, Icones, t. 229.)

Var. β. *sarmentosa.*—*A. Indica*, Gardner, in Calc. Journ. of Nat. Hist. vol. viii. p. 8.—C.P. 2770.

HAB. Central Province, at an elevation of 5000 to 7000 feet; not uncommon.

6. POTERIUM, Linn.

1. **P. Indicum,** Gardner, in Calc. Journ. of Nat. Hist. vol. viii. p. 10; "*caulibus* angulatis, basi ferrugineo-villosis; *foliolis* ovatis, obtusis, grosse dentato-serratis, basi subcordatis; *inferioribus* multo minoribus; *capitulis* polygamis; *bracteis* ciliatis; *calycibus fructiferis* osseo-induratis, reticulato-rugulosis, 4-angularibus; *angulis* alatis." *Gardner.*—C.P. 2771.

HAB. "Adam's Peak, 1835. Mr. Alwis," *Gardner.*

I have searched in vain for this plant in my visits to Adam's Peak, and Mr. Alwis has now no vivid recollection of gathering it there. The specimens in this Herbarium are in a very imperfect condition, and bear a considerable resemblance to *P. Sanguisorba*, Linn.

7. PYGEUM, Gærtner.

1. **P. Ceylanicum,** Gærtn. Fruct. i. 218. t. 46. — *P. Walkerii*, Blume; Walp. Ann. iv. 642.—*Polyodontia? Walkerii*, Wight, Illust. i. 203.—*? Pygeum acuminatum*, Colebr. Linn. Tr. xii. 360. t. 18.—C.P. 1532.

HAB. Warm, moister parts of the island, up to an elevation of 3000 feet. Nom. vulg. "Kankoombalakatteya-gass," "Gal-mora-gass."

Arbor majuscula. *Folia* 4–7 poll. longa, 2–3 poll. lata, *petiolo* circiter ½ poll. longo. *Racemi* foliis breviores. *Drupæ* brevi-tomentosæ, denique subglabræ.

2. **P. Wightianum,** Blume, Walp. l. c.—*Polyodontia? Ceylanica*, Wight, l. c.; Icones, t. 256.—C.P. 638.

Digitized by Google

Var. β. *parvifolium.*—*P. parvifolium*, Gardn. MSS.—C.P. 1596.
HAB. Central Province, at an elevation of 4000 to 8000 feet. Nom. vulg. "Oonoonoo-gass."

Arbor mediocris. *Folia* ovata vel ovato-lanceolata, brevi-acuminata, glabra, 1½–5 poll. longa, ¾–2½ poll. lata, *petiolo* 2½–4 lin. longo. *Racemi* pilosi, foliis breviores. *Drupæ* glabræ, transverse oblongæ.

The ripe seeds of this and of the preceding species have, when bruised, a very powerful odour of prussic acid.

LXII. COMBRETACEÆ.

1. COMBRETUM, Löffl.

1. **C. Wightianum**, Wall. (W. et A. Prod. i. 317; Wight, Icones, t. 227.)—C.P. 1601, 1602.
HAB. Not uncommon up to an elevation of 3000 feet. Nom. vulg. "Kadoorooketty a-wel."

When growing on the hills, this plant has somewhat larger flowers than when it occurs near the level of the sea.

2. LUMNITZERA, Willd.

1. **L. racemosa**, Willd. (W. et A. Prod. i. 316, cum syn.)—C.P. 1594.
HAB. Seacoast; not uncommon. Nom. vulg. "Baireya-gass."

3. CONOCARPUS, Gærtner.

1. **C. latifolia**, Roxb. (W. et A. Prod. i. 316, cum syn.; Wight, Icones, t. 994.)—*Anogeissus*, Wall.—C.P. 1220.
HAB. Open, grassy places, in the district north of Kandy, up to an elevation of 1500 feet. Nom. vulg. "Daawoo-gass."

4. TERMINALIA, Linn.

Sect. 1. *Myrobalanus.*

1. **T. Belerica**, Roxb. (W. et A. Prod. i. 313, cum syn.)—C.P. 1605.
HAB. Open, grassy places, up to an elevation of 2000 feet. Nom. vulg. "Booloo-gass."

2. **T. Chebula**, Retz, (W. et A., l. c. cum syn.)—C.P. 1604.
HAB. Similar places with the last. Nom. vulg. "Araloo-gass."

The drupes of this and of the preceding species are much valued as a medicine, and are sold in the bazaars.

3. **T. parviflora**, Thw.; *foliis* suboppositis, oblongis, abrupte acuminatis, integris, glabris, subtus minutissime reticulatis petioloque eglandulosis; *spicis* pilosulis, terminalibus, paniculatis, foliis subæquilongis; *drupis* ovoideis, carnosis, subpentagonis; *putamine* profunde lateque 5-sulcato.—C.P. 618, 646.
HAB. Margins of woods in the Central Province, up to an elevation of 4000 feet; abundant in the Ambagamowa District. Nom. vulg. "Hampalanda-gass."

Digitized by Google

Arbor magna. *Ramuli* petioliqne juniores fugaci-ferrugineo-pilosi. *Folia* 3–5 poll. longa, 1½–2½ poll. lata, *petiolo* 3–5 lin. longo. *Flores* parvi, albidi. *Calyx* campanulatus, brevi-dentatus, externe pilosulus, interne villosus. *Drupæ* glabræ, virides, pollicares.

Sect. 2. *Pentaptera.*

4. **T. glabra,** W. et A., l. c. p. 314, cum syn.—C.P. 1603.

HAB. Very abundant on the banks of rivers, up to an elevation of 2000 feet. Nom. vulg. "Koombook-gass."

In my specimens the ramuli and the under side of the young leaves are puberulous, furnishing an additional reason for believing *Pent. tomentosa,* Roxb., to be merely a variety of the present plant, as suspected by Dr. Wallich.

LXIII. MELASTOMACEÆ.

Sect. *Melastomeæ.*

1. OSBECKIA, Linn.

(Nom. vernac. "Bowitteya," "Heen-bowitteya.")

† *Floribus tetrameris.*

1. **O. Leschenaultiana,** DC. Prod. iii. 142; Wight, Icon. t. 996; Spic. Nilgh. i. t. 68; *non* Naudin, Ann. des Sci. Nat. ser. 3. vol. xiv. p. 65 (quoad descript.).—*O. truncata,* Don; W. et A. Prod. i. 322; Arnott in Comp. to Bot. Mag. ii. 308; Walp. Rep. ii. pp. 135, 136. *O. parvifolia,* Arn. l. c.; Walp. l. c.—*O. erythrocephala,* Naud. l. c. p. 58.—C.P. 1576 (? C.P. 284).

HAB. Abundant in the Central Province, up to an elevation of 7000 feet.

A most variable species as regards the amount of pubescence and the size of the leaves, and I am unable to divide it into even distinct varieties, so completely do the several forms merge one into the other when a large series is examined. A specimen in the Herbarium, numbered C.P. 284, is, I suspect, a hybrid between the present species and *O. aspera,* some of its flowers having eight and others ten stamens, with anthers much longer than those of *O. Leschenaultiana.* In habit and pubescence it resembles the last-named species, but in the shape of the leaves and in other respects it is just intermediate between the two.

2. **O. Zeylanica,** Linn. f. (W. et A., l. c. cum syn.; *non* Naudin, l. c. p. 71).—*O. serialis,* Naud. l. c. p. 67.—C.P. 1575.

HAB. Amongst grass, in sandy soil: in the hot, drier parts of the island.

3. **O. Rheedii,** Gardn. MSS.; *foliis* rigidis, 3-nerviis, sparse adpresse setulosis, ovato-lanceolatis, basi plus minus angustatis, subtus pallidioribus; *floribus* ternis, subsessilibus; *calycis* strigosi dentibus triangularibus, tubo subæquilongis; *antheris* oblongis, obtusis, 1-porosis; *connectivo* infra loculos conspicue producto.—C.P. 129 (441).

HAB. Adam's Peak, near the summit.

Frutex parvus. *Ramuli* tetragoni, scabri. *Folia* ¾–1½ poll. longa, 4–7 lin. lata, subtus ad nervos scabra, *petiolo* scabro 1½–2 lin. longo. *Petala* rotundata, acuminata, pallide purpurea, circiter 4 lin. longa. *Ovarium* 4-loculare, loculis circiter 8-ovulatis.

Digitized by Google

†† *Floribus pentameris.*

4. **O. Walkeri,** Arnott, l. c. p. 309; Walp. Rep. ii. 137.—C.P. 1571.

HAB. Central Province, at an elevation of 6000 to 8000 feet.

5. **O. buxifolia,** Arnott, l. c.; Walp. l. c. 136; Naud. l. c. p. 63.—C.P. 1572.

Var. β. *minor; foliis floribus*que minoribus; *calyce* dense sericeo-villoso, nec stellatim piloso.—C.P. 2618 (forsan species distincta).

HAB. Central Province, at an elevation of 6000 to 8000 feet.

If some of the species of this genus did not individually vary so much in the size of the leaves and flowers, and in the clothing of the calyx, I should without hesitation have made a separate species of var. β, but it bears so great a resemblance to var. α in all other than the above respects, that I cannot venture to divide them.

6. **O. aspera,** Blume.—*Melastoma aspera,* Linn. (*partim*).

Var. α; *calyce* setuloso, apicem versus parce squamuloso.—*O. aspera,* Bl.; W. et A., l. c. 323; Naudin, l. c. p. 74.—C.P. 1568.

Var. β; *calyce* setuloso, apicem versus appendiculis linearibus stellato-capitatis squamisque penicillatis parce ornato.—*O. Kleinii,* W. et A., l. c.; Arnott, l. c. p. 309.—C.P. 1569.

Var. γ; *floribus* majoribus; *calyce* sericeo-crinito; cæteroquin ut in var. β.—C.P. 506 (600, 1573).

Var. δ; *foliis* ellipticis, obtusiusculis, subcoriaceis; *paniculis* sæpe abbreviatis; *calyce* copiosius appendiculato; cæteroquin ut in var. γ.—*O. Kotigueda,* Naud. l. c. 64. ? *O. Wightiana,* Benth.; Wight, Icones, t. 998; Arnott, l. c.—C.P. 1570.

HAB. Var. α and β. Warmer parts of the island, up to no great elevation. Var. γ. Central Province, from 2000 to 4000 feet. Var. δ. From 4000 to 5000 feet.

The several varieties enumerated above, so run one into another, that I do not feel justified in constituting distinct species of them. Of the plants referred to by Linnæus as representing his *Melastoma aspera,* Herman's would appear to be the only one corresponding with any form of the present species, for the others are mentioned as having succulent fruit, and the one described by Burman was probably a state of *Melastoma Malabathricum.*

7. **O. rubicunda,** Arn. l. c.; Walp. l. c.—*O. elliptica,* Naud. l. c. 62. —C.P. 52 (208).

Var. β; *ramis* patentim pilosis, hispidis; *calyce* (cum appendiculis) hispidissimo.—*O. rubicunda,* Naud. l. c.

HAB. Central Province, at an elevation of 5000 to 7000 feet.

Closely allied to the previous species, and much resembling its var. δ, and is principally distinguished by its more rigid pubescence, more coriaceous leaves, and fewer, larger, subsessile capitate flowers.

8. **O. Moonii,** Thw.; pilosula, repens, ad nodos radicans; *foliis* membranaceis, ovatis, acutis, longiuscule petiolatis; *paniculis* paucifloris, ramulos terminantibus; *bracteis* rotundatis, ciliatis; *calyce* hemisphærico, appendiculis linearibus capitatis setosis, hispido; *dentibus* lanceolatis, tubo æquilongis, apice appendiculatis; *antheris* subulatis; *connectivo* ad basin parum producto.—*Melastoma repens,* Moon's Cat. 35, *non* Lam.—C.P. 2800.

HAB. Colombo, *Moon.* Saffragam District, rather rare.

Folia 3-nervia, 1–2¼ poll. longa, ½–1¼ poll. lata, *petiolo* 2–4 lin. longo. *Bracteæ* 1 lin. longæ. *Flores* mediocres, purpurei, *pedicellis* 1½ lin. longis.

9. **O. virgata,** Don, (W. et A., l. c. 323; Naud. l. c. 61).—*O. polyce-*

Digitized by Google

phala, Naud. l. c. 67. ? *O. cupularis*, Don; W. et A., l. c.; Naud. l. c. 61. ? *O. octandra*, DC. Prodr. iii. 142, cum syn.—C.P. 507, 2619.

HAB. Common up to an elevation of 3000 feet.

A very variable plant in the amount of pubescence upon the stems and leaves, and in the number of setose appendages to the calyx.

2. MELASTOMA, Linn.

1. **M. Malabathricum,** Linn. (W. et A. Prod. i. 324, cum syn.)—*M. ellipticum*, Naud. Ann. des Sci. Nat. ser. 3. vol. xiii. p. 291; Walp. Ann. ii. 567. *M. Royneii*, Blume; Walp. Repert. ii. 133.—C.P. 1574.

Var. β; *ramulis* scaberrimis; *foliis floribus*que majoribus; *calycis* dentibus lanceolatis, tubo longioribus.—C.P. 1574 (2692).

HAB. Var. α. Common in the hotter parts of the island. Var. β. Up to an elevation of 3000 feet. Nom. vulg. "Bowitteya," "Mahabowitteya," "Katakaloowa."

The flat scales which clothe the calyx of var. β are shorter and less shining than in var. α: both sometimes occur with pale purple flowers. The fruit, when ripe, bursts irregularly, and exposes a dark-coloured pulp, covered with the small seeds: this pulp is eaten by children, and stains the inside of their mouths of a black colour.

3. MEDINILLA, Gaud.

? *Triplectrum*, Don, MSS., W. et A.

1. **M. maculata,** Gardner in Calc. Journ. of Bot. vol. viii. p. 13; *foliis* ovatis vel ovato-lanceolatis, subcordatis, crenatis, apice retusis; brevissime petiolatis, 3-nerviis; *pedunculis* axillaribus, 1–3-floris; *floribus* parvis, 4-meris; *antheris* basi postice calcaratis, antice bi-uncinatis.—C.P. 1578.

Var. β. *cuneata; foliis* majoribus, rotundato-cuneatis, abrupte breviacuminatis vel retusis.—C.P. 3443. (An species distincta?)

HAB. Var. α. Central Province, at an elevation of 3000 to 5000 feet. Var. β. Hellessee, Pasdoon Corle.

Frutex epiphytus. *Ramuli* 4-goni, angulis undulatis. *Folia* subcarnosa, superne glabra, subtus pilis minutissimis glandulosis conspersa, $\frac{3}{4}$–$1\frac{3}{4}$ (var. β, $1\frac{1}{2}$–$2\frac{1}{2}$) poll. longa, 4–12 lin. (var. β, $\frac{3}{4}$–2 poll.) lata. *Pedunculi* folio multo breviores. *Calyx* urceolatus, minutissime 4-dentatus, carnosus. *Petala* pallide rosea, subrotundata, reflexa, circiter $2\frac{1}{2}$ lin. longa. *Antheræ* subulatæ. *Baccæ* rubræ.

2. **M. fuchsioides,** Gardner, l. c.; *foliis* 3–5-nerviis, rhomboideo-oblongis, basi truncatulis, superne glabris, subtus sparse minutissime glandulosis, brevissime petiolatis; *pedunculis* in axillis foliorum delapsorum solitariis, 1–3-floris, folio multo brevioribus; *floribus* pendulis, 4-meris, petalis rotundatis, conniventibus; *antheris* subulatis, basi 3-tuberculatis.—C.P. 138.

HAB. Newera Ellia and other most elevated parts of the Central Province.

Frutex epiphytus, dichotome ramosus. *Ramuli* teretes, cinerei. *Folia* 2–3 poll. longa, 1–$1\frac{1}{2}$ poll. lata, subtus pallidiora, costa rubra. *Inflorescentia* rubra. *Pedicelli* apicem versus incrassati, basi bibracteolati. *Flores* pollicares. *Calyx* urceolatus, 4-dentatus. *Stylus* filiformis. *Stigma* minutum. *Baccæ* subglobosæ, atro-rubræ, circiter 4 lin. in diam.

Digitized by Google

4. PACHYCENTRIA, Blume.

1. **P. Walkeri.**—*Medinilla? Walkeri*, Wight, Illust. i. 217.—*M. Walkerii*, Gardner in Calc. Journ. of Nat. Hist. vol. viii. p. 11; *foliis* 5-nerviis, oblongis vel ovato-oblongis, utrinque angustatis, obtusis; *junioribus* fugaci-ferrugineo-furfuraceis; *floribus* majusculis, speciosis, terminalibus, fasciculatis vel umbellatis, longe pedicellatis; *pedicellis* basi bracteatis.—C.P. 385.

HAB. Central Province, at an elevation of 3000 to 5000 feet.

Frutex epiphytus, scandens, copiose radicans. *Folia* 1½–3 poll. longa, ¾–1½ poll. lata, subtus pallidiora, subintegra, in plantis junioribus ciliato-dentata. *Petioli* 2–3 lin. longi. *Pedicelli* circiter 1½ poll. longi, cum bracteis calycibusque sparse ferrugineo-furfuracei. *Bracteæ* oblongæ, obtusæ, 2–3 lin. longæ. *Calyx* ruber, margine expanso 4-lobo carnoso. *Petala* carnosa, ovato-rotundata, circiter 1½ poll. longa, interne sanguineo-rosea, externe pallidiora. *Stamina* æqualia, filamentis parce compressis; *antheris* sigmoideo-subulatis, compressis, postice acute calcaratis, 4 lin. longis. *Ovarium* calyce consolidatum, apice liberum, 4-loculare; *placentis* axilibus pluri-ovulatis. *Stylus* filiformis. *Stigma* minutum. *Capsula* unilocularis, apice 4-valvis, polysperma. *Semina* minuta, prismatica.

This is one of the most beautiful plants of the island, covering the trunks and branches of forest trees with a mantle of the most lovely rose-colour, when it is in flower.

5. SONERILA, Roxb.

† *Foliis æqualibus, brevi- vel mediocri-petiolatis.*

1. **S. robusta,** Arn. Comp. to Bot. Mag. ii. 308; Walp. Rep. ii. 122; Naudin, Ann. des Sc. Nat. ser. 3. vol. xv. p. 327.—C.P. 426.

HAB. Adam's Peak, at an elevation of 6000 to 7000 feet.

2. **S. Gardneri,** Thw.; erecta, sublignosa, hirsuta; *foliis* 5–7-nerviis, rotundatis vel ovatis, acutis, subcordatis, serrulatis, brevi-petiolatis; *pedicellis* 1-bracteatis; *bracteis* foliaceis; *floribus* majusculis; *antheris* cordato-lanceolatis, subacutis.—C.P. 63 (486).

HAB. Below Horton Plains, towards Galagama, on wet rocks, at an elevation of about 5000 feet.

Caulis teres, subsimplex, rufo-niger, glanduloso-hirsutus, 1–1½-pedalis. *Folia* ½–1¼ poll. longa, 4–8 lin. lata, utrinque hirsuta, subtus pallidiora; *petiolo* 1–3 lin. longo, glanduloso-hirsuto. *Pedicelli* calyce breviores et cum eo glanduloso-hirsuti. *Petala* sanguineo-rubra. *Capsula* ovoidea, gibba, obscure 6-costata, muricato-hirsuta.

3. **S. Harveyi,** Thw.; erecta, sublignosa, superne ramosa, subglabra; *foliis* rotundatis vel ovatis, subacutis, 7-nerviis, setuloso-denticulatis, supra versus apicem prope marginem setulosis, cæteroquin glabris, basi subcordatis, brevi-petiolatis; *racemis* parce foliaceo-bracteatis; *antheris* breviusculis, cordato-acuminatis.—C.P. 2974.

HAB. Central Province, between Maturatte and Rambodde, at an elevation of 6000 feet, Oct. 1853.

1–2½-pedalis. *Rami* 4-goni, rubro-nigri, glabri vel parcissime glanduloso-pilosi, ad nodos setosi. *Folia* 3–10 lin. longa, subtus pallidiora; *petiolo* ½–1½ lin. longo. *Pedicelli* circiter 6, glabri. *Calyx* 6-costatus, glanduloso-pilosus; *dentibus* triangularibus, setosis. *Petala* purpurea, rotundato-acuminata.

4. **S. lanceolata,** Thw.; suberecta, parce ramosa, glaberrima; *foliis* 3-nerviis, lineari-lanceolatis, supra medium serrulatis, basi cordatis,

Digitized by Google

brevissime petiolatis; *racemis* simplicibus vel ramosis; *antheris* subulatis; *capsulis* longiusculis et cum pedicellis incrassatis profunde 6-sulcatis.—C.P. 3007.

HAB. Carawitte Kanda, near Ratnapoora, at an elevation of 1000 feet.

Folia 1½–3 poll. longa, 3–8 lin. lata. *Petala* rubra, rotundata, apiculata.

5. **S. rhombifolia,** Thw.; suberecta, ramosa, glaberrima; *foliis* 3-nerviis, ovato- vel lanceolato-rhomboideis, utrinque acutis, incurvo-denticulatis, petiolatis; *calycis* 6-costati dentibus longiusculis, acutis; *antheris* subulatis.—C.P. 2799.

HAB. Hinidoon and Kokool Corles, at no great elevation.

1–2-pedalis. *Rami* obscure 4-goni. *Folia* ¾–1½ poll. longa, 2–7 lin. lata, subtus rufescentia; *petiolo* 1–3 lin. longo. *Petala* rubra.

I have named this "*S. glaberrima*, Arn.," in some distributed collections, but it can scarcely be that species.

†† *Foliis plus minus inæqualibus basique obliquis, longiuscule petiolatis.*

6. **S. Arnottiana,** Thw.; suberecta, ramosa, sublignosa; *foliis* 3–5-nerviis, lanceolatis vel ovato-lanceolatis, ciliato-denticulatis, parum obliquis inæqualibusque, superne glabris, subtus parce hirsutis; *petiolo*, cum nervis subtus, plus minus glanduloso-piloso; *racemis* simplicibus vel sæpius bifurcis, glanduloso-pilosis; *antheris* cordato-oblongis, breviacuminatis.—C.P. 2615.

HAB. Central Province, at an elevation of 4000 to 7000 feet.

1–2-pedalis. *Rami* plus minus glanduloso-pilosi. *Folia* ¾–3 poll. longa, 4–10 lin. lata, subtus pallidiora, utrinque acuta vel basi parce rotundata. *Petala* ovato-acuminata, purpurea, 3½ lin. longa. *Capsulæ* hypocrateriformes, 6-costatæ, muricato-setosæ, *pedicello* subæquilongæ.

7. **S. Hookeriana,** Arn. l. c. p. 308; Walp. l. c.; Naud. l. c. p. 321. —C.P. 173.

HAB. Adam's Peak, on the Saffragam side, at an elevation of 5000 to 6000 feet.

Racemi simplices vel bifurci. *Petala* purpurea. *Antheræ* aurantiacæ.

8. **S. hirsutula,** Arn. l. c. p. 307; Walp. l. c.—? *S. Wightiana*, Arn. l. c.—C.P. 276.

HAB. Central Province, at an elevation of 6000 to 7000 feet.

Petala pallide purpurea.

9. **S. pilosula,** Thw.; suberecta, ramosa; *foliis* majusculis, penniveniis, ovato-lanceolatis, acuminatis, serrulatis, utrinque brevi-pilosulis, basi sæpissime valde obliquis, inæqualibus; *racemis* pilosulis; *antheris* longiusculis, cordato-rostratis; *capsulis* pilosis, hypocrateriformibus, 6-nervosis; *pedicellis* subæquilongis.—C.P. 2687.

HAB. Saffragam District, at an elevation of 1000 to 2000 feet.

½–1½-pedalis. *Rami* subteretes, pilosuli. *Folia* ¾–4 poll. longa, ½–1½ poll. lata, subtus sæpe purpurascentia. *Petala* rubra.

This species bears considerable resemblance to *S. versicolor*, Wight, Icones, t. 1057, but in that species the leaves are represented as scarcely oblique, the racemes glabrous, and the pedicels relatively shorter.

10. **S. rostrata,** Thw.; herbacea, erecta, ramosa; *foliis* 3–5-nerviis, ovato-lanceolatis, dentatis vel crenato-denticulatis, glabris vel sparse pilosis; *antheris* longis, rostrato-subulatis; *capsulis* brevibus, hypo-

Digitized by Google

crateriformibus, 6-nerviis, *pedicello* subæquilongis.—? *S. glaberrima*, Arn. l. c.—C.P. 2644.

HAB. Hinidoon and Reigam Corles, and Ambagamowa District, at an elevation of 1000 to 2000 feet.

½–1-pedalis. *Rami* glabri, acute 4-goni. *Folia* 4–12 lin. longa, subtus rufescentia. *Petala* rubra, rotundato-acuminata, 4 lin. longa.

11. **S. affinis,** Arn. l. c.; Walp. l. c. 122.—C.P. 353.

HAB. Central Province, at an elevation of 4000 feet.

Folia 3–5-nervia, 2–10 lin. longa. *Petala* pallide rosea, rotundato-acuminata, 3 lin. longa. *Antheræ* cordato-subulatæ. *Capsulæ pedicellis* breviores, costulis parum prominentibus.

Closely allied to *S. rostrata* and *S. Ceylanica*, but distinguished from the former by its more sharply denticulated leaves, smaller, paler flowers, and less acuminated anthers; and from the latter by its subulate anthers and differently-shaped, less prominently costate capsules.

12. **S. Ceylanica,** W. et A. (Arn. l. c.; Walp. l. c.; Naud. l. c. 321.) —C.P. 349, 3345 (1577).

HAB. Central Province, at an elevation of 3000 to 5000 feet.

Petala purpurea vel albida. *Antheræ* cordatæ, subacuminatæ. *Capsulæ* longe hypocrateriformes, prominente 6-costatæ.

13. **S. tomentella,** Thw.; erecta, ramosa; *caule, ramis, petiolis racemis*que brevi-tomentosis; *foliis* ovato-lanceolatis, ciliato-denticulatis, utrinque sparse pilosis, costa venisque subtus tomentosis; *antheris* brevibus, oblongis, subapiculatis; *capsulis* hypocrateriformibus, setosis; *pedicellis* æquilongis.—C.P. 2616.

HAB. Ambagamowa District, at an elevation of 3000 to 4000 feet.

½–1½-pedalis. *Folia* 3–12 lin. longa, basi rotundata, subpennivenia. *Petala* alba vel pallide rosea, rotundata, acuta, 3½ lin. longa.

Very similar, in general appearance, to *S. Ceylanica*, but easily distinguishable by its tomentose stems and differently shaped anthers and capsules.

14. **S. pumila,** Thw.; erecta, sæpe ramosissima, multiflora; *foliis* 3–5-nerviis, rotundatis, ovatis vel ovato-lanceolatis, ciliato-denticulatis, superne sparse setosis et sæpissime albo-maculatis, subtus glabris; *racemis* paucifloris, sessilibus, glabris; *floribus* parvis; *antheris* brevibus, oblongis, obtusis, majuscule 2-porosis; *capsulis* longiusculis, hypocrateriformibus, 6-costatis.—C.P. 2617.

HAB. Newera Ellia and other more elevated parts of the Central Province.

1–10-pollicaris. *Rami* 4-goni, glabri. *Folia* 2–14 lin. longa; *petiolo* glabro. *Petala* alba. *Antherarum* loculi ab apice fere ad medium fissi.

The smaller, obtuse, large-pored anthers and less prominently costate capsules distinguish this from *S. Ceylanica* and other closely allied species.

15. **S. pedunculosa,** Thw.; herbacea, repens, radicans; *foliis* rotundatis vel ovatis, obtusis, crenatis, superne sparse villosis, subtus subglabris; *pedunculis* elongatis, paucifloris, sparse glanduloso-pilosis; *floribus* parvis; *antheris* cordato-acutis; *capsulis* turbinatis, 6-costatis. —C.P. 3091.

HAB. Hinidoon Corle, at an elevation of 1000 feet.

Folia viridi-rufescentia, ½–1½ poll. longa. *Petala* sanguinea, ovato-acuminata, 2½ lin. longa.

This is a very distinct species, but my materials are not sufficient to enable me to give so complete a description of it as could be wished.

Digitized by Google

MARUMIA ZEYLANICA, *Blume,* has, I fear, no claim to be considered a native of Ceylon.

Sect. *Memecyleæ.*

6. MEMECYLON, Linn.

1. *Foliis* 1-*nerviis vel basi sub*-3-*nerviis.*

† *Disco calycino radiatim alato.*

1. **M. capitellatum,** Linn. (Blume, Mus. Bot. Lugd.-Bat. i. p. 354, cum syn., sed "Burm. Thes. Zeyl. p. 76. t. 30," vix excludend.)—C.P. 1564 (1565).

HAB. Not uncommon, up to an elevation of 1000 feet. Nom. vulg. "Welli-kaha."

2. **M. edule,** Roxb. Cor. Pl. i. t. 82.—? *M. Royneii,* Blume, l. c. 360. —C.P. 1566.

Var. β; *foliis* majoribus, oblique acuminatis; *paniculis* elongatulis. —C.P. 3442.

Var. γ; *foliis* elliptico-lanceolatis, basi subrotundatis; *paniculis petiolo* longiusculo subæquilongis.—? *M. Heyneanum,* Benth. Wight, Icon. t. 278.—C.P. 1563.

Ramuli teretes. *Folia* 2–6½ poll. longa, 1–3½ poll. lata, *petiolo* 2–4 lin. longo. *Pedicelli* calyce subæquilongi.

3. **M. sylvaticum,** Thw.; *ramulis* teretibus; *foliis* ovatis vel ellipticis, subabrupte acuminatis, basi in *petiolum* brevissimum vel subnullum angustatis, coriaceis, obscure penniveniis; *paniculis* brevibus, plus minus ramosis; *pedicellis* brevissimis, crassiusculis.—C.P. 1558, 1567, 3302 (2929).

HAB. Common in forests, at an elevation of 2000 to 4000 feet.

Arbor parva. *Folia* 1½–5½ poll. longa, ¾–2½ poll. lata. *Flores* cæruleo-purpurascentes. *Baccæ* sphæricæ, atro-purpureæ, 4–5 lin. in diam.

Nearly allied to *M. edule,* from which it differs in its more abruptly acuminated leaves, shorter petioles and flowerstalks, and somewhat larger flowers.

4. **M. leucanthum,** Thw.; *ramulis* obscure 4-gonis; *foliis* subnitidis, rotundatis, ovatis vel ellipticis, abrupte breveque acuminatis, obtusis, basi acutis, brevi-petiolatis, venis primariis prominentibus; *paniculis* parum elongatis; *pedicellis* calyce dimidio longioribus.—C.P. 1559.

HAB. Central Province, at an elevation of 3000 to 5000 feet.

Arbor parva. *Folia* 1½–2½ poll. longa, ¾–1¼ poll. lata, *petiolo* 1 lin. longo. *Flores* albi, petalis reflexis. *Baccæ* sphæricæ.

5. **M. rhinophyllum,** Thw.; *ramulis* obscure 4-gonis; *foliis* opacis, eveniis, ovatis vel ellipticis, valde acuminatis, basi acutis, subsessilibus; *paniculis* corymbosis vel umbellato-corymbosis, compactis, multifloris; *pedicellis* tenuibus, calyce subduplo longioribus; *floribus* parvis.—C.P. 2928.

HAB. Central Province, up to an elevation of 3000 feet.

Arbor parva. *Folia* (acumine ½-poll.) 2–3 poll. longa, ¾–1¼ poll. lata. *Flores* pallide cyaneæ. *Baccæ* sphæricæ, atro-purpureæ, 3 lin. in diam.

6. **M. macrocarpum,** Thw.; *ramulis* teretibus; *foliis* majusculis, valde coriaceis, rotundis, obtusis, basi plus minus angustatis, petiolatis; *pedunculis* brevibus; *pedicellis* calyce subæquilongis; *baccis* majusculis, sphæricis.—C.P. 2798.

Digitized by Google

HAB. Ambagamowa, at an elevation of about 3000 feet.

Arbor parva. *Folia* 3–4 poll. longa, 2½–3½ poll. lata, *petiolo* 2 lin. longo. *Baccæ* (immaturæ) 8 lin. in diam.

†† *Disco calycino lævi vel obscure radiatim costulato.*

* *Ramulis teretibus.*

7. **M. revolutum,** Thw.; *foliis* coriaceis, oblongo-rotundatis, obtusis, subcordatis, marginibus revolutis, brevi-petiolatis, venis primariis utrinque parum prominentibus; *pedunculis* multifloris, plus minus elongatulis ramosisque; *pedicellis* calyce dimidio longioribus; *floribus* parvis.—C.P. 2975.

HAB. Rambodde, at an elevation of 5000 feet.

Arbor parva. *Folia* 2–3 poll. longa, fere æquilata, *petiolo* 1 lin. longo. *Petala* alba. *Baccæ* nigro-purpureæ, 4–5 lin. in diam.

8. **M. umbellatum,** Burm. Fl. Ind. p. 87.—*M. ramiflorum,* Lam. DC. Prod. iii. p. 6; Wight, Illust. i. 215. t. 93. *M. umbellatum* et *M. ramiflorum,* Blume, l. c. pp. 863, 864, (*quoad descript.*)—C.P. 387, 764, 1561, 1562.

HAB. Very abundant, up to an elevation of 2000 feet. Nom. vulg. "Cora-caha."

The leaves of this species, mixed with the wood of *Morinda citrifolia* and *Cæsalpinia Sappan,* are employed by the Cinghalese for producing a permanent red dye.

9. **M. angustifolium,** Wight, Icones, t. 276.—C.P. 1556, 3346.

HAB. Common on the banks of rivers, up to an elevation of 2000 feet.

Frutex 6–8-pedalis. *Folia* evenia, superne nitidula, ad costam canaliculata, subtus opaca, pallidiora. *Pedunculi* ramosi, simplices vel subnulli. *Petala* cyanea. *Baccæ* pisi magnitudine, nigro-purpureæ.

10. **M. rostratum,** Thw.; *foliis* ellipticis, abrupte rostrato-acuminatis, obtusiusculis, basi acutis, inconspicue venosis, petiolatis; *pedunculis* multifloris, brevibus vel subnullis; *pedicellis* calyce 2–3-plo longioribus; *floribus* parvis.—C.P. 1560.

HAB. Central Province, at an elevation of 3000 to 4000 feet.

Arbor parva. *Folia* (acumine ½-poll.) 1½–2½ poll. longa, ½–1¼ poll. lata, *petiolo* 1½ lin. longo. *Petala* alba. *Antheræ* cyaneæ. *Baccæ* sphæricæ.

11. **M. fuscescens,** Thw.; *foliis* membranaceis, nitidulis, obscure venosis, ovatis vel ellipticis, basi plus minus angustatis, brevissime petiolatis; *paniculis* brevibus, parce ramosis, paucifloris; *pedicellis* subnullis.—C.P. 287.

HAB. Kokool Corle, at no great elevation.

Folia (acumine 4–6-lin.) 1½–3 poll. longa, 6–11 lin. lata. *Baccæ* sphæricæ, 4 lin. in diam.

12. **M. macrophyllum,** Thw.; *foliis* magnis, coriaceis, cordato- vel subcordato-lanceolatis, brevissime petiolatis; *pedunculis* brevissimis vel subnullis; *pedicellis* brevibus.—C.P. 2685.

HAB. Ambagamowa District and Pasdoon Corle, at an elevation of 1000 to 3000 feet.

Folia 6–12 poll. longa, 2–8½ poll. lata. *Petala* pallide cyanea. *Baccæ* sphæricæ, 4 lin. in diam.

Digitized by Google

Closely allied to, and possibly a state of, the next species, from which it is principally distinguished by its larger leaves cordate at the base, and shorter petioles.

13. **M. jambosoides,** Wight, Illust. i. p. 215; Icones, t. 277.—C.P. 1555, 2468, 3347.

HAB. Damp, shady places, up to an elevation of 3000 feet.

Petala pallide cyanea. *Baccæ* sphæricæ, 4 lin. in diam.

14. **M. cuneatum,** Thw.; *foliis* coriaceis, opacis, eveniis, rotundatis vel oblongis, obtusis, basi cuneatis, brevi-petiolatis; *pedunculis* nullis; *floribus* confertis, brevissime pedicellatis; *calycis* margine subintegro, alabastris acutis.—C.P. 2538.

HAB. Central Province, at an elevation of 3000 feet.

Arbor parva. *Folia* 1–2½ poll. longa, ½–1½ poll. lata, *petiolo* 1 lin. longo. *Petala* pallide cyanea. *Baccæ* sphæricæ.

15. **M. orbiculare,** Thw.; *foliis* coriaceis, subnitidis, orbicularibus, obscure obtuseque acuminatis vel retusis, brevissime petiolatis, venis primariis vix conspicuis; *pedunculis* brevibus vel subnullis; *pedicellis* calyce subæquilongis.—C.P. 3441.

HAB. Hinidoon Corle, at an elevation of 1000 feet.

Arbor parva. *Folia* 1½–2 poll. longa. *Petala* cyanea.

16. **M. ovoideum,** Thw.; *foliis* majusculis, valde coriaceis, opacis, obovato-rotundatis, retusis, subsessilibus; *pedunculis* subnullis; *pedicellis* fasciculatis, confertis, calyce subæquilongis; *baccis* ovoideis.—C.P. 2621.

HAB. Ambagamowa District, near Adam's Peak, at an elevation of 4000 to 5000 feet.

Arbor parva. *Folia* 2–4 poll. longa, 1¾–3 poll. lata. *Baccæ* 6 lin. longæ, 4 lin. latæ, nigro-purpureæ.

** *Ramulis tetragonis.*

17. **M. ellipticum,** Thw.; *foliis* nitidulis, ellipticis, abrupte rostrato-acuminatis, obtusis, basi rotundatis vel parce angustatis, inconspicue venosis, brevissime petiolatis; *pedunculis* brevissimis vel subnullis; *pedicellis* confertis, calyce subæquilongis.—C.P. 3479.

HAB. Singhe Rajah Forest, between Galle and Ratnapoora, at no great elevation.

Arbor parva. *Folia* (acumine ½-poll.) 2–3 poll. longa, 1¼–1¾ poll. lata; *petiolo* ½ lin. longo. *Petala* albida.

18. **M. elegantulum,** Thw.; *foliis* lanceolatis, longe acuminatis, obtusiusculis, basi plus minus angustatis, brevissime petiolatis, obscure venosis; *paniculis* filiformibus, subelongatis, parce ramosis, paucifloris; *pedicellis* subsolitariis, calyce dimidio longioribus.—C.P. 2684.

HAB. Saffragam District, at no great elevation.

Folia (acumine ½–¾-poll.) 2–3 poll. longa, 6–8 lin. lata. *Flores* albi. *Baccæ* sphæricæ, pisi magnitudine.

19. **M. varians,** Thw.; *foliis* opacis, brevi-petiolatis, obscure venosis; *pedunculis* brevibus vel parum elongatis; *floribus* capitellatis; brevissime pedicellatis.

Var. α. *acuminatum; foliis* ovatis vel ellipticis, acuminatis, basi acutis.—C.P. 2927.

Var. β. *rotundatum; foliis* rotundatis vel oblongis, utrinque obtusis.—C.P. 2959 (170).

Digitized by Google

HAB. Central Province. Var. α. At an elevation of 2000 to 4000 feet. Var. β. At 4000 to 5000 feet.

Arbor parva. *Folia* 1–3 poll. longa, ½–1½ poll. lata, *petiolo* 1–1½ lin. longo. *Petala* cyanea vel raro albida. *Baccæ* sphæricæ, 3–4 lin. in diam.

20. **M. parvifolium,** Thw.; *foliis* coriaceis, opacis, eveniis, rotundatis vel oblongis, obtusis retusisve, basi cuneatis, brevi-petiolatis; *pedunculis* brevissimis vel subnullis; *floribus* capitellatis, subsessilibus.—C.P. 2955.

HAB. Central Province, at an elevation of 7000 feet.

Arbor parva. *Folia* ½–1 poll. longa, 3–8 lin. lata, *petiolo* ½–1 lin. longo. *Petala* albida. *Baccæ* sphæricæ.

Nearly allied to, and possibly a variety of, the preceding, from var. β of which it differs principally in its leaves being cuneate at the base and a good deal smaller.

*** *Ramulis 4-alatis.*

21. **M. Hookeri,** Thw.; *foliis* majusculis, cordato-lanceolatis, acuminatis, sessilibus, subtus costa et venis primariis intramarginalique valde prominentibus; *pedunculis* brevibus vel subnullis; *pedicellis* longiusculis.—C.P. 2686.

HAB. Ambagamowa District, in shady forests, on the banks of streams, at an elevation of 1000 feet.

Frutex erectus, parce ramosus, 8–12-pedalis. *Folia* 6–12 poll. longa, 1½–3 poll. lata. *Petala* cyanea. *Baccæ* sphæricæ, 4 lin. in diam., rufescentes, denique nigro-purpureæ.

22. **M. Wightii,** Thw.—? *M. amplexicaule*, Wight, Icon. t. 279 (vix Roxb. Fl. Ind. ii. 260.)—C.P. 2570.

HAB. Central Province, at an elevation of 3000 to 4000 feet.

Arbor parva. *Folia* subnitida, cordato-lanceolata, plus minus acuminata, obscure venosa, 2–5 poll. longa, ¾–1½ poll. lata, *petiolo* 1 lin. longo. *Pedunculi* brevissimi vel subnulli. *Pedicelli* conferti, longiusculi. *Petala* cyanea. *Baccæ* sphæricæ, 3–4 lin. in diam.

The shape of the leaves and smaller size of the fruit seem to preclude the possibility of the present being Roxburgh's plant; and the winged ramuli and petioled leaves of our plant do not agree with Dr. Wight's description of his species, though his figure quoted above bears a very considerable resemblance to it.

2. *Foliis trinerviis.*

23. **M. Arnottianum,** Wight, MSS.—*Eugenia? capitellata*, Arn. Pug. 17 (335); Walp. Rep. ii. 182.—C.P. 1589 (1868).

HAB. Hinidoon and Pasdoon Corles, and Saffragam District, at no great elevation.

Frutex vel arbor parva, 10–12-pedalis. *Ramuli* teretes. *Folia* 1–4 poll. longa, ½–2 poll. lata, juniora rufescentia. *Capitella* 3–5-flora, longe pedunculata. *Petala* albida. *Baccæ* sphæricæ, pisi magnitudine, nigro-purpureæ.

24. **M. Gardneri,** Thw.; *ramulis junioribus* anguste 4-alatis; *foliis* opacis, pellucido-punctulatis, rotundatis, ellipticis vel rhomboideo-oblongis, abrupte breveque acuminatis, obtusis retusisve, basi in *petiolum* brevem angustatis; *capitellis* 3-plurifloris, brevi-pedunculatis vel sessilibus.—C.P. 2387.

HAB. Central Province, at an elevation of 2000 to 5000 feet.

Arbor parva. *Folia* 1–3 poll. longa, ½–1½ poll. lata, *petiolo* 1 lin. longo. *Flores* albi. *Baccæ* sphæricæ, pisi magnitudine, nigro-purpureæ.

Digitized by Google

LXIV. MYRTACEÆ.

1. MYRTUS, Tournef.

Sect. *Rhodomyrtus*, DC.

1. **M. tomentosa,** Ait. (W. et A. Prod. i. 328, cum syn.; Wight, Icones, t. 522; Illust. ii. 18. t. 97* or 122. f. 3.)—C.P. 1591.

HAB. Common in the Central Province, at an elevation of 6000 to 8000 feet.

2. EUGENIA, Linn.

1. **E. Willdenovii,** DC. Pr. iii. 265, cum syn.; Wight, Icones, t. 545.—C.P. 1586.

HAB. Common in the hotter parts of the island. Nom. vulg. "Tambaleya-gass."

2. **E. bracteata,** Roxb. (W. et A. Prod. i. 331, cum syn.)—C.P. 1590.

HAB. Jaffna, *Gardner*.

This is, as remarked by Dr. Wight, very closely allied to the preceding species, from which it differs principally in its smaller flowers and wider leaves, with shorter petioles. They may possibly prove to be forms only of one species.

3. **E. terpnophylla,** Thw.; *foliis* lanceolatis vel oblongo-lanceolatis, longe acuminatis, basi plus minus angustatis; *junioribus* cum *ramulis inflorescentia*que ferrugineo-pilosis.—C.P. 2623.

Var. β; *foliis* subtus plus minus breviter rufo-pilosis.

HAB. Ambagamowa and Ratnapoora Districts, and Reigam Corle, up to no great elevation.

Arbor mediocris. *Ramuli* teretes. *Folia* 2½–5 poll. longa, ¾–2 poll. lata, *petiolo* ¼–½ poll. longo. *Pedunculi* axillares terminalesque, breves, pauciflori. *Pedicelli* petiolo subæquilongi. *Petala* alba, *lobis calycinis* rotundatis duplo longiora. *Baccæ* sphæricæ, puberulæ, cerasi parvi magnitudine.

4. **E. amœna,** Thw.; *foliis* sessilibus, cordato- vel ovato-lanceolatis, acuminatis, glabris, subtus reticulatis; *floribus* sæpissime terminalibus, subfasciculatis; *pedicellis* folio multo brevioribus.—C.P. 3439.

HAB. Kokool Corle and Dolosbage District, up to an elevation of 1500 feet.

Arbor parva. *Ramuli* teretes. *Folia* 2–6 poll. longa, 1½–2½ poll. lata. *Pedicelli* 7–10 lin. longi, raro breviores. *Petala* 4, alba, oblonga, circiter 3 lin. longa, *lobis calycinis* rotundatis longiora.

5. **E. Mooniana,** Wight, Illust. ii. 13; Icones, t. 551.—C.P. 11, 365 (77, 733, 1581, 2451).

Var. β; *foliis* subsessilibus, rotundatis, acuminatis; *floribus* sessilibus. —C.P. 2803. (An species distincta?)

HAB. Abundant in the Central Province, up to an elevation of 4000 feet.

A most variable species in the shape of the leaves and the length of the petioles and flower-stalks. Var. β may possibly prove to be a distinct species, but I am disposed at present to consider it only a variety.

6. **E. mabæoides,** Wight, Illust. ii. 13.—C.P. 445, 1588 (2693).

HAB. Central Province, at an elevation of 4000 to 7000 feet.

Digitized by Google

Folia ½–2 poll. longa, ¼–1¼ poll. lata, dense glanduloso-punctata. *Baccæ* sphæricæ, cerasi parvi magnitudine.

7. **E. floccifera,** Thw.; *foliis* oblongo-lanceolatis, acuminatis; *junioribus* cum *ramulis inflorescentia*que dense fulvo-tomentosis; *pedicellis* axillaribus, brevibus, fasciculatis; *calycis* lobis 4, lanceolatis, tubo multum longioribus.—C.P. 463.

HAB. Reigam Corle, at no great elevation.

Arbor parva. *Ramuli* teretes. *Folia* 4–8 poll. longa, 1–2 poll. lata, *petiolo* 3–4 lin. longo. *Petala* alba, 4 lin. longa, lobis calycinis æquilonga.

8. **E. fulva,** Thw.; *foliis* ellipticis vel oblongis, abrupte brevi-acuminatis, basi rotundatis, superne lævibus, subtus venosis; *junioribus* cum *ramulis inflorescentia*que fulvo-tomentosis; *floribus* axillaribus caulinisque parvis, sessilibus, confertis.—C.P. 3008.

HAB. Pasdoon Corle, at no great elevation.

Arbor parva, *ramulis* teretibus. *Folia* 4–6 poll. longa, 2½–3 poll. lata, *petiolo* 4 lin. longo.

9. **E. rivulorum,** Thw.; *foliis* majusculis, lanceolatis, acuminatis, basi angustatis, subtus minutissime fulvo-pilosis, denique glabris; *floribus* majusculis, sessilibus, axillaribus caulinisque; *calycis* externe pilosi lobis 4, rotundatis, tubo æquilongis.—C.P. 3440.

HAB. Banks of streams, in the Singhe-rajah forest, between Galle and Ratnapoora, at no great elevation.

Arbor parva. *Ramuli* teretes. *Folia* 10–14 poll. longa, 3–4½ poll. lata, *petiolo* circiter ½ poll. longo. *Petala* oblonga, pallide purpurea, 5 lin. longa.

10. **E. decora,** Thw.; *foliis* oblongis, acuminatis, basi rotundatis, glabris, superne nitidis, subtus pallidioribus, minute reticulatis; *floribus* sessilibus, confertis, axillaribus caulinisque; *baccis* transverse oblongis, dispermis.—C.P. 3545.

HAB. Near Galle, at no great elevation.

Arbor parva, *ramulis* teretibus. *Folia* 4–5 poll. longa, circiter 2 poll. lata, *petiolo* 4 lin. longo. *Flores* albi. *Baccæ* rubro-nigrescentes, 6 lin. in alt., 8 lin. in lat. max.

When one seed only is produced, the berry would be no doubt spherical, and perhaps this will prove to be the most usual form.

3. JAMBOSA, Rumph.

1. **J. aquea,** DC. (W. et A. Prod. i. 332, cum syn.; Wight, Icones, t. 216.)—*Eugenia (J.) aquea,* Wight, Illust. ii. p. 14. *Eug. sylvestris,* Moon's Cat. p. 38.—C.P. 418 (609).

HAB. Abundant in the Central Province, up to an elevation of 5000 feet. Nom. vulg. "Wal-jambo-gass."

This species varies a good deal in the length of the calyx-tube and in the colour of the flowers, which latter are either of a pale-purple or more commonly of a deep-crimson colour.

2. **J. cylindrica.**—*Eug. (J.) cylindrica,* Wight, Icones, t. 527, et forsan *E. (J.) pauciflora,* Wight, Ic. t. 526.—C.P. 601.

HAB. Ambagamowa District, up to an elevation of 3000 feet.

Arbor mediocris. *Petala* alba, purpurascentia. *Baccæ* subsphæricæ, urceolatæ, 6–8 lin. in diam.

Digitized by Google

4. STRONGYLOCALYX, Blume.

Mus. Bot. Lugd.-Bat. i. p. 89.

1. **S. hemisphæricus,** Bl. l. c. 90.—*Eug. (J.) hemisphærica,* Wight, Illust. ii. p. 14. t. 97* or 122. fig. 8; Icones, t. 525.—C.P. 2450, 2540, 3438.

HAB. Central Province and Kokool Corle, up to an elevation of 4000 feet.

Arbor mediocris. *Folia* 2–6 poll. longa, ¾–2 poll. lata. *Petala* alba. *Baccæ* sphæricæ, circiter 1 poll. in diam.

5. SYZYGIUM, Gærtn.

† *Cymis ad foliorum delapsorum axillas.*

1. **S. caryophyllifolium,** DC.—*Eug. (S.) caryophyllifolia* [*E. (S.) Jambolana?* var. *microcarpa*], Wight, Icones, t. 553. *Eug. caryophyllifolia,* Lam.; Roxb. Fl. Ind. ii. p. 486. *Calyptranthes Cumini,* Moon's Cat. p. 39.—C.P. 1584.

HAB. Common up to an elevation of 3000 feet. Nom. vulg. "Mādang-gass."

The fruit, which is of about the size of a pea, is eaten by the Cinghalese.

2. **S. polyanthum.**—*Eug. (S.) polyantha,* Wight, Illust. ii. p. 17; Icones, t. 543. An *Syz. balsameum,* Wall. Wight, Ill. ii. p. 16? *Calypt. caryophyllifolia,* Moon's Cat. p. 39.—C.P. 2801.

HAB. Common up to an elevation of 3000 feet. Nom. vulg. "Batta-domba-gass."

Arbor magna. *Baccæ* sphæricæ, nigrescentes, cerasi parvi magnitudine.

The leaves of this species are larger than those of the preceding species, with far fewer and more distant primary veins, and shorter petioles; the flowers also are larger. The fruit is not eaten.

†† *Cymis terminalibus axillaribusque.*

* *Ramulis junioribus teretibus.*

3. **S. cordifolium.**—*Eug. (S.) cordifolia,* Wight, Illust. ii. p. 16; Icon. t. 544.—C.P. 350, 2622.

HAB. Near Cattura, *Moon;* Ambagamowa and Ratnapoora Districts, up to an elevation of 3000 feet.

Baccæ subsphæricæ, pollicares.

4. **S. montanum.**—*Eug. (S.) montana,* Wight, Icon. t. 1060?—C.P. 2694.

HAB. Ambagamowa District, at an elevation of 4000 feet.

My specimens bear considerable resemblance to Dr. Wight's figure, but they are in too imperfect a state to enable me to feel certain they are identical with his species.

5. **S. sylvestre.**—*Eug. (S.) sylvestris,* Wight, Icon. t. 532. *Calyptranthes Jambolana,* Moon's Cat. p. 39.—C.P. 2862.

HAB. Common up to an elevation of 3000 feet. Nom. vulg. "Aloobo-gass."

Arbor magna. *Baccæ* sphæricæ, nigro-purpureæ, circiter ½ poll. in diam.

6. **S. assimile,** Thw.; *foliis* ovato-lanceolatis vel obovatis, plus minus

Digitized by Google

abrupte acuminatis, basi angustatis vel rarius rotundatis, petiolatis; *cymis* ad apices ramulorum confertis, folio dimidio brevioribus; *baccis* sphæricis.—An *Eug. (S.) Arnottiana,* Wight, Icon. t. 999, *varietas ?*—C.P. 46, 634, 2449 (291, 1582, 2495).

HAB. Central Province, up to an elevation of 5000 feet, in open places.

Arbor mediocris. *Folia* 2–5 poll. longa, 1¼–2 poll. lata, *petiolo* 2–5 lin. longo. *Baccæ* atro-purpureæ, circiter ¾ poll. in diam.

This closely resembles in general appearance Dr. Wight's figure of *Eug. (S.) Arnottiana,* quoted above, but the petals in our plant seem generally to fall off without expanding, and the fruit is spherical instead of being oblong.

7. **S. Neesianum,** Arn. Pug. (335) 17.—*Eug. (S.) Neesiana,* Wight, Icon. t. 533; Illust. ii. p. 15. *Calyptranthes cordifolia,* Moon's Cat. p. 39. An *Myrtus androsæmoides,* Vahl, Fl. Zeyl. n. 184?—C.P. 735 (763).

HAB. Common up to an elevation of 3000 feet. Nom. vulg. "Panookaara-gass."

8. **S. caryophyllæum,** Gærtn. (W. et A. Prod. i. 329.)—*Eug. (S.) caryophyllæa,* Wight, Illust. ii. p. 15; Icones, t. 540.—C.P. 1583.

HAB. Common up to an elevation of 3000 feet. Nom. vulg. "Dang-gass."

The berries, which are of about the size of a pea, are eaten by the Cinghalese.

9. **S. revolutum.**—*Eug. (S.) revoluta,* Wight, Illust. ii. p. 17; Icones, t. 534.—C.P. 2521.

HAB. Central Province, at an elevation of 3000 to 6000 feet.

Arbor mediocris. *Ramuli* aliquando obscure tetragoni. *Baccæ* sphæricæ, rubiginosæ, cerasi parvi magnitudine.

10. **S. micranthum,** Thw.; *foliis* ovatis vel ellipticis, obtuse rostrato-acuminatis, venosis, obscure punctulatis, basi angustatis, petiolatis; *cymis* folio subæquilongis; *floribus* parvulis; *calyce* acute 4-dentato.—C.P. 1580.

HAB. Central Province, at an elevation of 3000 to 5000 feet.

Arbor mediocris. *Folia* (acumine ½–¾ poll. longo) 2–4 poll. longa, ¾–2 poll. lata, *petiolo* 2–5 lin. longo. *Baccæ* sphæricæ, rubiginosæ, pisi magnitudine.

11. **S. Gardneri,** Thw.; *foliis* ovato-lanceolatis, rostrato-acuminatis, brevissimis, subtus delicatule parallelo-venosis, pellucido-punctatis; *cymis* folio brevioribus; *calyce* obscure 4-dentato.—C.P. 2496.

HAB. Central Province, at an elevation of 2000 to 4000 feet.

Arbor mediocris. *Folia* 2½–4 poll. longa, 1–1½ poll. lata, *petiolo* tenui 4–5 lin. longo.

** *Ramulis junioribus tetragonis.*

12. **S. lissophyllum,** Thw.; *foliis* ovato-lanceolatis, acuminatis, lævissimis, subtus delicatule venosis, punctulatis; *cymis* folio sæpissime longioribus; *dentibus calycinis* brevibus, rotundatis.—An "*Eug. (S.) cymosa,* Lam." Wight, Icon. t. 555?—C.P. 2452, 2453.

HAB. Forests in the Central Province, at an elevation of 3000 to 5000 feet.

Arbor mediocris. *Folia* 1½–3 poll. longa, 6–13 lin. lata, *petiolo* 2–3 lin. longo.

Closely resembling the preceding species in the shape and venation of the leaves, but these are smaller and more shortly petioled in the present plant, which is moreover at once distinguished from the other by its quadrangular ramuli. *Eug. (S.)*

Digitized by Google

toddalioides, Wight, Icon. t. 542, must be very closely allied to this, but the longer-pedicelled flowers would seem, judging from the figure, sufficient to prove it distinct.

13. **S. umbrosum,** Thw.; *foliis* ovatis, breve et obtuse acuminatis vel retusis, basi angustatis, utrinque lævissimis, subeveniis; *cymis* folio longioribus.—C.P. 2539.

HAB. Open, grassy places in the Central Province, at an elevation of 5000 to 6000 feet.

Arbor mediocris, ramosissima. *Folia* 1–2 poll. longa, 6–10 lin. lata, *petiolo* 1½–2 lin. longo.

Differs from the last in the shape and venation of the leaves: the inflorescence of the two species is very similar.

14. **S. spathulatum,** Thw.; *foliis* parvis, spathulato-obovatis vel lanceolatis, obtusis, superne nitidis, subtus opacis, parce parallelo-venosis, dense glanduloso-punctatis; *cymis* folio subæquilongis vel brevioribus; *floribus* parvis, brevi-pedicellatis.—C.P. 2493 (2494).

HAB. Central Province, at an elevation of 3000 to 5000 feet.

Arbor parva. *Folia* 1–1¾ poll. longa, 4–8 lin. lata, *petiolo* 1–1½ lin. longo. *Baccæ* sphæricæ, rubro-nigrescentes, pisi magnitudine.

Apparently closely allied to *S. rubiginosum*, W. et A. Prod. i. 330.

15. **S. calophyllifolium.**—*Eug. (S.) calophyllifolia*, Wight, Icones, t. 1000.—C.P. 160.

HAB. Adam's Peak, at an elevation of 6000 to 7000 feet.

16. **S. sclerophyllum,** Thw.; *foliis* parvis, valde coriaceis, obovatis vel subrotundatis, sessilibus, cordatis, superne glabris, subtus venosis; *costa* ad basin incrassata; *cymis* folio subæquilongis.—C.P. 274.

HAB. Central Province, at an elevation of 6000 to 8000 feet.

Arbor mediocris. *Folia* 5–12 lin. longa, 4–10 lin. lata. *Baccæ* sphæricæ, nigrescentes, cerasi parvi magnitudine.

17. **S. rotundifolium,** Arn. Pug. (335) 17.—*Eug. (S.) rotundifolia*, Wight, Illust. ii. p. 17.—C.P. 1587.

HAB. Central Province, at an elevation of 6000 to 8000 feet.

Arbor parva. *Folia* orbicularia, obtusissima vel obscure acuminata, basi subcordata vel parum angustata, 4–8 lin. longa, *petiolo* ½–1½ lin. longo. *Baccæ* sphæricæ, rubro-nigrescentes, cerasi parvi magnitudine.

Nearly allied to the preceding, but I think certainly distinct.

18. **S. oliganthum,** Thw.; *foliis* parvis, obovatis, obtuse brevi-acuminatis vel retusis, basi angustatis, leviter venosis, punctatis; *capitulis* paucifloris, brevi-pedunculatis, terminalibus.—C.P. 452 (588).

HAB. Ambagamowa District, at an elevation of 3000 to 5000 feet.

Arbor parva. *Folia* 4–10 lin. longa, 3–6 lin. lata, *petiolo* 1 lin. longo. *Baccæ* sphæricæ, rubro-nigrescentes, pisi magnitudine.

6. ACMENA, DC.

1. **A. Zeylanica.**—*Eug. (A.) Zeylanica*, Wight, Illust. ii. p. 15, cum syn.; Icones, t. 73.—C.P. 56, 380 (470, 1579).

HAB. Common in the hot, drier parts of the island, up to no great elevation. Nom. vulg. "Marang-gass."

Arbor mediocris. *Folia* lineari- vel ovato-lanceolata, acuminata, basi angustata vel rotundata, dense glanduloso-punctata, 1–4 poll. longa, 1½–10 lin. lata, *petiolo* 1–3 lin. longo. *Calyx* valde glandulosus.

Digitized by Google

2. **A. lanceolata.**—*Eug. (A.) lanceolata*, Wight, Illust. ii. p. 15; Icones, t. 530. *Syzygium lanceolatum*, W. et A. Prod. i. p. 330, cum syn. An *Eugenia (A.) Wightiana*, Wight, Illust. ii. p. 15; Icones, t. 529, cum syn.?—C.P. 2863.

HAB. Ambagamowa and Kornegalle Districts, up to an elevation of 2000 feet.

LXV. BARRINGTONIACEÆ.

1. BARRINGTONIA, Forst.

† *Calyce primum indiviso vel apice minute aperto, denique in lobis* 2–3 *longitudinaliter fisso.*

1. **B. speciosa**, Linn. (W. et A. Prod. i. 333, cum syn.; Wight, Icones, t. 547.)—C.P. 3610.

HAB. On the sea-shore, between Galle and Matura.

2. **B. racemosa**, Roxb. (W. et A., l. c. cum syn.; Wight, Icones, t. 152; Thomson in Linn. Soc. Journ. ii. p. 47. t. 1. fig. 3.)—C.P. 2682.

Var. α; *calyce juniore* indiviso, apiculato.

Var. β; *foliis floribus*que minoribus, *pedicellis* longioribus, *calyce juniore* ad apicem minute aperto.—*B. Ceylanica*, Gardn. MSS.

HAB. Warm, moister parts of the island, up to an elevation of 1500 feet. Nom. vulg. "Deya-midella-gass."

†† *Calyce* 4-*lobo, lobis imbricatis.* Stravadium, *Juss.*

3. **B. acutangulum**, Gærtn. (W. et A., l. c. cum syn.)—C.P. 1592 (1593).

HAB. Hotter parts of the island, up to no great elevation. Nom. vulg. "Ella-midella-gass."

2. CAREYA, Roxb.

1. **C. arborea**, Roxb. (W. et A. Prod. i. 334, cum syn.; Wight, Illust. ii. p. 20, tt. 99, 100.)—C.P. 3169.

HAB. Central Province, in exposed, grassy places, up to an elevation of 5000 feet. Nom. vulg. "Cahaata-gass."

Ovula in loculis biserialia, singula dimidio inferiore membrana placentali vestita.

The bark of this tree is very astringent, and is used medicinally and for tanning.

In *Barringtonia* and *Careya* I find the young leaves furnished with very minute stipules.

3. ANISOPHYLLEA, Br.

Anisophyllum, Don. *Tetracrypta*, Gardner and Champion.

1. **A. Zeylanica**, Benth. in Niger Flora; Hook. f. and Th. in Linn. Soc. Journ. ii. p. 86.—*Tetracrypta cinnamomoides*, Gard. and Ch. in Hook. Journ. of Bot. i. p. 314, and v. p. 378. t. 5.—C.P. 2205.

HAB. Southern and central parts of the island, up to an elevation of 1500 feet. Nom. vulg. "Wellapeyenna-gass."

Calycis lobi persistentes. *Fructus* indehiscens. *Embryo* exalbuminosus, axialis, *cotyledonibus* nullis vel subnullis.

Digitized by Google

The structure and germination of the embryo are precisely as in *Careya* and *Barringtonia*, so well described by Dr. Thomson in the Linnæan Society's Journal, vol. ii. p. 47.

LXVI. RHIZOPHORACEÆ.

SECT. 1. *RHIZOPHOREÆ.*

1. RHIZOPHORA, Linn.

Nom. vulg. "Cadol-gass."

1. **R. mucronata,** Lam. (Blume, Mus. Bot. Lugd.-Bat. i. p. 132, cum syn.; Wight, Icones, t. 238.)—C.P. 1969.
HAB. Trincomalee, Calpentyu, *Gardner*. Negumbo and other parts of the coast.

This and some of the other species of the family are used for tanning.

2. **R. conjugata,** Linn. (Blume, l. c. cum syn.)—C.P. 1968.
HAB. With the preceding, and equally common.

2. BRUGUIERA, Lam.

1. **B. gymnorhiza,** Lam. (Blume, l. c. p. 136, cum syn.)—An quoque *B. cylindrica*, Bl. l. c. p. 137, cum syn.?—C.P. 3611 (1967, *partim*).
HAB. Southern coast of the island.

2. **B. Rheedii,** Blume, l. c. p. 138, cum syn.—*B. Rumphii*, Bl., and *B. Wightii*, Bl. l. c. cum syn.; Wight, Icones, t. 139 *A*.—C.P. 3612 (1967, *partim*).
HAB. Common near the sea-coast, *Gardner, etc.*

Blume seems to have divided this genus into an unnecessary number of species, and it may be presumed, from the differences being so trivial, that they will all prove to be varieties of one variable species.

3. KANILIA, Blume, l. c. p. 140.

Walp. Ann. ii. p. 528.

1. **K. caryophylloides,** Bl. l. c., cum syn.; Walp. l. c. p. 529.—C.P. 1965.
HAB. Trincomalee and Calpentyu, *Gardner*.

4. CERIOPS, Arn.

Blume, l. c. p. 142.

1. **C. Candolleana,** Arn. (Bl. l. c. cum syn.; Wight, Icones, t. 240.)—C.P. 1966.
HAB. Trincomalee, *Gardner*. Negombo, etc.

SECT. 2. *LEGNOTIDEÆ.*

5. CARALLIA, Roxb.

Blume, l. c. p. 128.

† *Calyce* 6–7-*lobo*.

1. **C. integerrima,** DC. Prod. iii. p. 33; Blume, l. c. p. 129; Benth.

Digitized by Google

in Linn. Journ. Bot. iii. p. 74.—*C. Ceylanica*, Arn. Pug. 16 (334). *C. Sinensis*, Arn. l. c. 17 (335).—C.P. 1763, 1764.

HAB. Not uncommon, up to an elevation of 3000 feet. Nom. vulg. "Dawata-gass."

The wood is strong, and being rather ornamental, is adapted for furniture.

†† *Calyce 4-lobo.*

2. **C. calycina,** Benth. in Linn. Journ. Bot. iii. p. 75; *foliis* glabris, integris, ovatis, brevi-acuminatis, basi angustatis, parallelo-venosis, subtus punctulatis, petiolatis; *cymis* axillaribus, solitariis, paucifloris, folio brevioribus; *calyce* parum costato.—C.P. 3458.

Var. *β*; *foliis* brevioribus, plus rotundatis coriaceisque.—C.P. 2588.

HAB. Var. *a*. Singhe Rajah Forest, between Galle and Ratnapoora, at no great elevation. Var. *β*. Central Province, at an elevation of 4000 to 5000 feet.

Arbor magna. *Folia* 1½–3 poll. longa, 1–1¾ poll. lata, *petiolo* 1–3 lin. longo. *Stipulæ interpetiolares* circiter 8 lin. longæ, cito deciduæ. *Cymæ* supra medium parce ramosæ. *Bracteolæ* rotundatæ, retusæ, sæpe mucronulatæ, circiter 1 lin. longæ. *Flores* subsessiles, 3 lin. longi. *Calycis* lobi tubo subæquilongi. *Petala* albida, unguiculata, margine inciso-sinuata.

6. ANSTRUTHERIA, Gardner.

Calcutta Journ. of Nat. Hist. vol. vi. p. 344. t. 4. Walp. Ann. ii. p. 178.

1. **A. Zeylanica,** Gardn. l. c.—C.P. 1116.

HAB. Galle District, *Gardner*. Trincomalee, *Dr. W. H. Harvey*. Dambool, etc., up to no great elevation.

Apparently very closely allied to *Cassipourea*, Aubl.

LXVII. LYTHRARIACEÆ.

SECT. 1. *LYTHREÆ.*

1. AMMANNIA, Houst.

Subgenus 1. DIPLOSTEMON, DC., Blume.

1. **A. octandra,** Linn. (Blume, Mus. Bot. Lugd.-Bat. ii. p. 132, cum syn.; Walp. Ann. iv. p. 686.)—C.P. 2797.

HAB. Hotter parts of the island.

Subgenus 2. CORNELIA, Blume.

2. **A. salicifolia,** Monti, (Bl. l. c. p. 132, cum syn.; Walp. l. c. p. 687.) —C.P. 2796.

Var. *β*; *foliis* basi rotundatis vel cordatis.—C.P. 3296.

HAB. Common in the hotter parts of the island.

My specimens of this species have all apetalous flowers.

Subgenus 3. HAPALOCARPUM, W. et A.

3. **A. Indica,** DC. (Bl. l. c. p. 133. t. 46 *A*, cum syn.; Walp. l. c. p. 687.)—C.P. 1542 (1544).

HAB. Very abundant in the hotter parts of the island.

Digitized by Google

Subgenus 4. Sellowia, Blume.

4. **A. pentandra,** Roxb. (Bl. l. c. p. 134. t. 46 *B*, cum syn.; Walp. l. c.; Wight, Icones, t. 260 *B*.)—C.P. 1548.
Hab. Very common.

2. AMELETIA, DC.

1. **A. Indica,** DC. (W. et A. Prod. i. p. 303; Wight, Icon. t. 257.)—*A. Indica*, Bl., and *A. elongata*, Bl. l. c. 135. t. 47, cum syn.; Walp. l. c. p. 686.—C.P. 1546.
Hab. Very abundant.

Judging from the descriptions only, the two forms, constituted distinct species by Blume, occur occasionally on the same plant.

3. ROTALA, Linn.

1. **R. verticillaris,** Linn. (Bl. l. c. p. 136, cum syn.; Wight, Icones, t. 260 *A*.—C.P. 1547.
Hab. Very abundant.

4. PEMPHIS, Forst.

1. **P. acidula,** Forst. (Bl. l. c. p. 128. t. 43, cum syn.; Walp. l. c. p. 688.)—C.P. 1553.
Hab. North of the island, *Gardner*.

5. GRISLEA, Lœffl.

1. **G. tomentosa,** Roxb. (Bl. l. c. p. 127. t. 45, cum syn.)—C.P. 1552.
Hab. Common in exposed places, in the Maturatte and Oova Districts, up to an elevation of 4000 feet.

6. LAWSONIA, Linn.

1. **L. alba,** Lam. (W. et A. Prod. i. p. 307, cum syn.; Wight, Illust. i. 207. t. 87.)—C.P. 1551.
Hab. Hot, drier parts of the island: Manaar, *Gardner*. Batticaloe.

SECT. 2. *LAGERSTRŒMIEÆ*.

7. LAGERSTRŒMIA, Linn.

1. **L. Reginæ,** Roxb. (Bl. l. c. p. 126. t. 41; Wight, Icones, t. 413.)—C.P. 1554.
Hab. Not uncommon in the warm, moister parts of the island, up to an elevation of 1500 feet. Nom. vulg. "Mooroota-gass."

8. AXINANDRA, Thw.

Hook. Journ. of Bot. vol. vi. p. 66. Walp. Ann. iv. p. 690.

1. **A. Zeylanica,** Thw. l. c. t. 1 *E*; Walp. l. c.—C.P. 2668.
Hab. Ambagamowa District, up to an elevation of 1500 feet.

Digitized by Google

SECT. 3. *SONNERATIEÆ.*

9. SONNERATIA, Linn.

1. **S. acida,** Linn. (Blume, l. c. p. 336, cum syn.; Wight, Icones, t. 340.)—C.P. 1595.
HAB. Caltura, Negombo, and other places on the coast. Nom. vulg. "Gedde-killala-gass."

Ramuli glandulis 2, parvis, disciformibus, ovalibus, paulo infra foliorum singulorum insertionem immersis, stipulas abortivas simulantibus muniti.

LXVIII. ONAGRACEÆ.

1. JUSSIÆA, Linn.

1. **J. repens,** Linn. (W. et A. Prod. i. 335, cum syn.)—C.P. 2793.
HAB. Common in the warmer parts of the island. Nom. vulg. "Bairoo-deyanella."

Very variable in the degree of pubescence on the foliage and capsules.

2. **J. villosa,** Lam. (W. et A., l. c. 336, cum syn.)—C.P. 2794, 3297.
Var. β. *subglabra.*—C.P. 1540.
HAB. Very abundant, up to an elevation of 3000 feet.

2. LUDWIGIA, Roxb.

1. **L. parviflora,** Roxb. (W. et A., l. c. p. 336, cum syn.)—C.P. 1539, 3298, 3510.
Var. β; plus minus pubescens.—C.P. 3299.
HAB. Very abundant in the warmer parts of the island, up to no great elevation.

2. **L. prostrata,** Roxb. (Fl. Ind. i. p. 420; Wight, Icon. t. 762.)—C.P. 2795.
HAB. Caltura, *Moon.*

LXIX. HALORAGEÆ.

1. MYRIOPHYLLUM, Willd.

1. **M. Indicum,** Willd. (W. et A. Prod. i. 339, cum syn.)—C.P. 1549.
HAB. Warmer parts of the island. Jaffna, etc., *Gardner.*

2. SERPICULA, Linn.

1. **S. Indica,** Thw.—*S. hirsuta,* W. et A., l. c. 338; Wight, Icones, t. 1001; Arn. Pug. 18 (336). *S. brevipes,* W. et A., l. c. (An *Haloragis oligantha,* Arn. l. c.; non W. et A.?)—C.P. 146, 447, 451, 1545, 2811.
HAB. Abundant in the Central Province, at an elevation of 5000 to 8000 feet.

Suffrutex procumbens, glaber vel plus minus hirsutus. *Folia* alterna, opposita vel subverticillata, rotundata, oblonga vel linearia, cuneata, inciso-dentata. *Stamina* 8, antheris linearibus. *Fructus* 8-costatus, costis sæpissime 3-tuberculatis.

Digitized by Google

3. TRAPA, Linn.

1. **T. bispinosa,** Roxb. (W. et A., l. c. 337, cum syn.)—C.P. 2932.
HAB. Tanks, in the hotter parts of the island.

LXX. CUCURBITACEÆ.

TRIBE *NHANDIROBEÆ.*

1. ZANONIA, Linn.

1. **Z. Indica,** Linn. (W. et A. Prod. i. 340, cum syn.; Wight, Illust. ii. p. 31. t. 103.)—C.P. 1628.
HAB. Not uncommon, up to an elevation of 2000 feet. Nom. vulg. "Wal-rasakinda."

Embryonis oblongi exalbuminosi *cotyledones* planæ, carnosæ, parum inæquales, *radicula* versus hilum spectante.

I have never been so fortunate as to be able to get the female flowers of this species, so cannot give an analysis of them. The Cinghalese value this plant as a febrifuge.

2. PESTALOZZIA, Moritzi.

Walp. Ann. i. p. 316.

1. **P. laxa,** Thw.—*Zanonia laxa,* Wall. Pl. As. Rar. ii. p. 28; Walp. Rep. ii. p. 194; Arnott in Hook. Journ. of Bot. iii. p. 272, in adn. *Z. Wightiana,* Arn. Pug. 38 *B* (356); Walp. l. c. (An *Pest. pedata,* Zoll. and Mor.; Walp. l. c.?)—C.P. 2582.
HAB. Central Province, at an elevation of 3000 to 5000 feet.

FL. MASC. *Antherarum* loculi longitudinaliter dehiscentes. FL. FŒM. *Ovarium* sphæricum, 6-loculare, *placentis* axilibus. *Ovula* in loculis solitaria, ab apice pendula. *Styli* 3, basi coaliti, apice divergentes, emarginati, bicuspidati. *Baccæ* sphæricæ, pisi magnitudine, 1–3-spermæ. *Semina* exalata.

TRIBE *CUCURBITEÆ.*

3. MELOTHRIA, Linn., Endl.

Stamina 3, *æqualia, bilocularia; filamentis medio tubi insertis.*

1. **M. deltoidea,** Thw.—*Æchmandra deltoidea,* Arn. l. c. p. 274. *Bryonia deltoidea,* Arn. Pug. 19 (337).—C.P. 1610, 2581, 3128.
HAB. Common up to an elevation of 5000 feet.

Folia deltoidea, hastata vel digitata, parce denticulata, superne calloso-scabra, subtus glabra vel ad nervos pilosa, 1½–3 poll. longa, *petiolo* ½–1½ poll. longo. *Cirrhi* simplices. *Flores* albidi, limbo expanso, 4 lin. in diam., ad faucem hirsutissimi. MASC.: *Filamenta* brevia. *Antheræ* latæ, dorso rufo-hirsutæ, *loculis* lateralibus. *Glandula* centralis, parva, rotundata, lævis. FL. FŒM. Axillares, solitarii vel bini, sæpe cum masculis intermixti, longiuscule pedicellati. *Stamina abortiva* 3, filiformia. *Ovarium* fusiforme. *Stylus* filiformis, basi annulo glandulari cinctus. *Stigma* magnum, 3-lobatum. *Fructus* cylindricus, utrinque attenuatus vel fusiformis, teres vel plus minus acute 6-costatus. *Semina* lævia, complanata, ovalia, albida, 1½ lin. longa.

Digitized by Google

4. ZEHNERIA, Endl.

Stamina 3, æqualia, bilocularia; filamentis prope basin tubi insertis.

1. **Z. Hookeriana,** Arn. in Hook. Journ. of Bot. iii. p. 275.—*Bryonia Hookeriana,* W. et A., l. c. 345; Wight, Icones, t. 758.—C.P. 1613.

HAB. Very abundant in the Central Province, at an elevation of 2000 to 4000 feet.

2. **Z. Garcini,** Stocks in Hook. Journ. of Bot. iv. (1852) p. 149.—*Bryonia Garcini,* Willd.; W. et A., l. c. cum syn.—C.P. 1611.

HAB. Jaffna, *Gardner.*

3. **Z. umbellata,** Thw.—*Karivia umbellata,* Arn. l. c. *Bryonia umbellata,* Herb. Mad.; W. et A., l. c. cum syn.—C.P. 1619, 3506.

HAB. Common up to an elevation of 3000 feet.

Flores albidi, ore contracti, glandula triloba, fulvo-hirsuta. MASC. *Bracteolæ* carnosæ, apiculatæ. *Connectivum* rotundatum, ad apicem fulvo-hirsutum. FŒM. *Stamina abortiva* 3, filiformia, truncata. *Ovarium* subcylindricum, versus apicem parum contractum.

5. ÆCHMANDRA, Arn., Walp.

Stamina 5, unilocularia, fauce inserta.

† *Filamentis antherisque 3-adelphis.*

1. **Æ. epigæa,** Arn. l. c. p. 274.—*Bryonia epigæa,* Rottl.; W. et A., l. c. p. 346, cum syn.; Wight, Icones, t. 503.—C.P. 1622.

HAB. Hot, drier parts of the island.

†† *Filamentis 3-adelphis, antheris distinctis.*

2. **Æ. Zeylanica,** Thw.; *foliis* oblongis vel hastato-oblongis, cordatis, acuminatis vel obtusis, subintegris vel sinuatis, parce denticulatis, superne plus minus calloso-scabris, subtus subglabris; *floribus* monoicis; *dentibus calycinis* brevibus; *corollæ* lobis rotundatis, acuminatis. MASC. Racemosis, pedunculatis. FŒM. Brevi-pedunculatis; *ovario* sphærico, 4–6-ovulato.—C.P. 3002, 3500.

HAB. Central Province, at an elevation of 3000 to 5000 feet.

Folia 3–6 poll. longa, *petiolo* ½–1½ poll. longo. *Flores* flavi, 3–4 lin. in exp. *Antheræ* oblique patelliformes, dorso affixæ. *Filamenta* brevissima. *Baccæ* transverse oblongæ, 2–6-spermæ, coccineæ, circiter 6 lin. in max. diam. *Semina* ampulliformia, parum compressa, 3 lin. in diam., nigra, zona pallida incomplete marginata.

6. MUKIA, Arn., Walp.

Stamina 5, unilocularia, prope basin tubi inserta; filamentis antherisque 3–4-adelphis.

1. **M. scabrella,** Arn. l. c. p. 276.—*Bryonia scabrella,* Linn.; W. et A., l. c. p. 345, cum syn.—C.P. 1616.

HAB. Very abundant up to an elevation of 3000 feet.

2. **M. leiosperma,** Thw.—*Bryonia leiosperma,* W. et A., l. c. cum syn.—C.P. 2700.

HAB. Central Province, at an elevation of 4000 to 5000 feet.

Closely allied, as observed by Wight and Arnott, to the preceding, but I find in the male flowers of the present plant a rudimentary pistil, surrounded at the base, as in the female flowers, with a glandular annulus, whilst in *M. scabrella* the male flowers have merely a small rounded gland at the base of the tube.

Digitized by Google

7. BRYONIA, Linn.

1. **B. laciniosa,** Linn. (W. et A., l. c. 344, cum syn.; Wight, Icones, t. 500.)—C.P. 1606.
HAB. Common up to an elevation of 5000 feet.

8. CITRULLUS, Neck.

1. **C. Colocynthis,** Arn. l. c. p. 276; Wight, Icones, t. 498.—*Cucumis Colocynthis*, Linn.; W. et A., l. c. p. 342, cum syn.—C.P. 1607.
HAB. Jaffna and Batticaloa, *Gardner*. Nom. vulg. "Yak-komadoo."

9. MOMORDICA, Linn.

1. **M. dioica,** Roxb. (W. et A., l. c. p. 348, cum syn.; Wight, Icon. tt. 505, 506.)—C.P. 197 (1617).
Var. β. *denudata; floribus* masc. et fœm. parum minoribus; *bracteis* parvis, inconspicuis.—C.P. 1615. (An species distincta?)
HAB. Var. *a*. Very abundant in the warmer parts of the island. Var. β. Central Province, at an elevation of 3000 to 4000 feet. Nom. vulg. "Toomba-karawilla."

Although the var. β, owing to the absence of the large bracteæ, has a very different appearance to var. α, I have searched in vain for any other character of the least importance to distinguish them, and therefore think it safer to describe them as forms of one species.

2. **M. Charantia,** Linn. (W. et A., l. c. cum syn.; Wight, Icones, t. 504.)—C.P. 1614.
HAB. Common in bushy places, near native gardens, up to an elevation of 3000 feet. Nom. vulg. "Karawilla," "Battoo-karawilla."

The several cultivated varieties of this species are much used as a vegetable by the Cinghalese.

10. LUFFA, Tournef.

† *Antheris distinctis.*

1. **L. pentandra,** Roxb. (W. et A., l. c. p. 343, cum syn.; Wight, Icon. t. 499.)—C.P. 2805.
HAB. Common up to an elevation of 3000 feet. Nom. vulg. "Neyang-ratta-coloo."

†† *Antheris* 3-*adelphis.*

2. **L. acutangula,** Roxb. (W. et A., l. c. cum syn.)—C.P. 1624.
HAB. Common in and near native gardens. Nom. vulg. "Vatta-coloo."

I have found the anthers triadelphous in all the specimens of this species I have examined.

The young fruit of this and of the preceding are used as vegetables by the Cinghalese, but the present one is most esteemed.

11. TRICHOSANTHES, Linn.

1. **T. cucumerina,** Linn. (W. et A., l. c. p. 350, cum syn.)—C.P. 2806.
Var. β. *laciniosa.*—C.P. 1620.

Digitized by Google

HAB. Very common in the warmer parts of the island. Nom. vulg. "Doommaala."

This plant is much esteemed as a febrifuge.

2. **T. nervifolia,** Linn. (W. et A., l. c. p. 349, cum syn.)—C.P. 1608.
HAB. Not uncommon up to an elevation of 5000 feet.

Flores albi. *Fructus* ovatus vel subrotundus, acuminatus, coccineus. *Semina* pauca, compressa, margine incrassato angulatoque, fusca, longe funiculata, epidermide coccinea vestita.

3. **T. integrifolia,** Thw.; dioica, *foliis* glabris, subcoriaceis, integris, venosis, ellipticis ovatisve, acuminatis vel rarius lanceolatis, trinerviis, basi rotundatis vel cordatis; *cirrhis* simplicibus; *floribus* majusculis, solitariis, axillaribus; *fructibus* majusculis, carnosis, sphæricis, obtuse brevi-apiculatis; *seminibus* numerosis, compactis, horizontalibus, in quoque loculo 2-serialibus.—C.P. 1629.
HAB. Central Province, at an elevation of 2000 to 4000 feet.

Folia 2½–6 poll. longa, 1½–2 poll. lata, *petiolo* 3–5 lin. longo. *Flores* albidi. *Fructus* coccineus, 2 poll. in diam. *Semina* lævia, oblonga, obliqua, compressa, ad hilum truncata, apice bidentata, 6 lin. longa, epidermide nigro-viridi vestita.

4. **T. palmata,** Roxb. (W. et A., l. c, cum syn.)—C.P. 1626.
HAB. Common up to an elevation of 2000 feet. Nom. vulg. "Titta-hondala."

12. GYMNOPETALUM, Arn., Endl.

1. **G. Wightii,** Arn. l. c. p. 278; Walp. Rep. ii. p. 203.—C.P. 1625.
HAB. Central Province, up to an elevation of 5000 feet.

Flores dioici, albidi, 6–7 lin. in exp., *tubo* piloso 5 lin. longo. *Calycis* lobi lineares. *Petala* oblonga, subacuta. MASC. *Filamenta* 3-adelpha, supra medium tubi inserta. FŒM. *Ovarium* fusiforme, pilosum. *Stylus* cylindricus. *Stigmata* 3, linearia. *Fructus* ovalis, rostratus, coccineus, 1½–2 poll. longus. *Semina* fusco-nigra, 3 lin. longa, pulpa pallide coccinea immersa.

2. **G. Zeylanicum,** Arn. l. c.—*Bryonia tubiflora,* W. et A., l. c. p. 347.
HAB. Trincomalee, *Klein, Wight.*

I have never met with this plant, so cannot give a decided opinion as to whether it may or not be specifically different from the preceding. The differences described hardly seem, in this family, sufficient to indicate more than forms of one species. The leaves on some of my specimens of *G. Wightii* exhibit an approach in form to those of the present one. I find the calyx always hairy in the former, and Wight and Arnott describe the fruit of the latter as slightly pilose. The seeds appear to be the same in both.

13. CUCUMIS, Linn.

1. **C. pubescens,** Willd. (W. et A., l. c. p. 342, cum syn.)—C.P. 3534.
HAB. Common on rubbish and on roadsides. Nom. vulg. "Gong-kakiree."

2. **C. trigonus,** Roxb. (W. et A., l. c. cum syn.? Wight, Icon. t. 497?) —C.P. 1618.
HAB. Aripo and Batticaloa, *Gardner.*

My specimens closely resemble Wight's figure, but are not sufficiently perfect to enable me to feel quite certain as to their identity.

Digitized by Google

14. COCCINEA, W. et A.

1. **C. Indica,** W. et A., l. c. p. 347, cum syn.—C.P. 1609.
HAB. Common in waste places. Nom. vulg. "Kowakka."

LXXI. PASSIFLORACEÆ.

1. MODECCA, Linn.

1. **M. Wightiana,** Wahl. (W. et A. Prod. i. p. 353, cum syn.; Wight, Icon. t. 179.)—C.P. 1621.
HAB. Putlam, *Gardner*.

2. **M. palmata,** Lam. (W. et A., l. c. cum syn.; Wight, Icon. t. 201.) —C.P. 1627.
HAB. Common up to an elevation of 3000 feet. Nom. vulg. "Hondala."

The root is said to be poisonous; it is used by the Cinghalese as a medicine.

Passiflora minima, Jacq. (*P. Walkeriæ*, Wight, Illust. ii. p. 39. t. 108), is not uncommon in cultivated ground, but can scarcely be considered indigenous. The same may be said of *P. fœtida*, L.

LXXII. BEGONIACEÆ.

1. BEGONIA, Linn.

(Nom. vulg. "Hakambala.")

1. **B. Malabarica,** Dryand. in Linn. Soc. Trans. i. p. 171; ? Roxb. Fl. Ind. iii. p. 648; Rheede, Hort. Mal. ix. p. 167. t. 86.
Var. β. *dipetala; floribus* dipetalis vel sæpe petalis interioribus 1 vel 2 angustis ornatis.—*B. dipetala*, Grah. in Hook. Bot. Mag. t. 2849; Wight, Icon. t. 1813. *Haagea dipetala*, Klotzsch, Begon. Gatt. und Art. p. 104; Walp. Ann. iv. p. 921.—C.P. 2807.

Flores rosacei vel albidi.

There can scarcely be a doubt, I think, of this being the plant figured by Rheede. The one described by Roxburgh would seem to have larger and differently shaped inner petals.

Sect. *Reichenheimia.*

2. **B. Thwaitesii,** Hook. Bot. Mag. t. 4692. — *Reichenheimia Thwaitesii*, Klotzsch, l. c. p. 55. t. 4 *A*; Walp. l. c. p. 894.—C.P. 2808.
HAB. Hunasgiria and Matele Districts, in the Central Province, at an elevation of 3000 to 4000 feet.

3. **B. subpeltata,** Wight, Icon. t. 1812.—*Reichenheimia subpeltata*, Klotzsch, l. c.; Walp. l. c.—C.P. 2597.
HAB. Ambagamowa District, at an elevation of from 3000 to 4000 feet.

This is closely allied to the last species, but its leaves are more angular, its peduncles longer and less hairy, flowers larger.

Digitized by Google

Sect. *Diploclinium.*

4. **B. cordifolia.**—*Diploclinium cordifolium,* Wight, Icon. t. 1816; Klotz. l. c. p. 71; Walp. l. c. p. 904.—C.P. 3584.
HAB. On shady banks, in the Batticaloa and Bintenne Districts, at no great elevation.

Ceylon specimens differ a little from Dr. Wight's figure in having the petioles more or less pilose, and the flowers rather larger, but they closely resemble it in other respects.

Another species of *Begonia* (C.P. 3460) occurs in the south of the island, but my specimens are too imperfect to describe from. The stem is a few inches in length, closely pitted with the scars of the fallen leaves, and the whole plant is covered with a dense red pubescence.

LXXIII. CRASSULACEÆ.

1. KALANCHOE, Adams.

1. **K. floribunda,** W. et A. Prod. i. p. 359?—C.P. 540.
HAB. Hantani, at an elevation of 3000 feet.

Glaberrima, 1½–3-pedalis. *Folia* ovalia, crenato-serrata, longiuscule petiolata, *floralia* acuta, *radicalia* valde obtusa. *Cymæ* laxæ, paniculatæ. *Flores* lutei, rubro-tincti.

This differs from the described form of *K. floribunda* in being perfectly smooth. The branches of the cyme, too, of the present plant can hardly be called racemiform.

2. **K. laciniata,** DC. (W. et A., l. c. cum syn.; Wight, Icon. t. 1158.)
HAB. Central Province, *Moon, H. de Alwis.*

I have not found this species, nor are there specimens of it in this Herbarium, but Mr. Alwis, the draughtsman of this establishment, assures me he has seen it growing wild on the hills near Kandy.

2. BRYOPHYLLUM, Salisb.

1. **B. calycinum,** Salisb. (W. et A., l. c. cum syn.)—C.P. 541.
HAB. Not very uncommon; up to an elevation of 5000 feet. Nom. vulg. "Akka-paana," "Rata-gowa." Said to have been introduced.

LXXIV. CACTACEÆ.

1. RHIPSALIS, Gærtn.

1. **R. Cassytha,** Gærtn. (DC. Prod. iii. p. 476.)—C.P. 2976.
HAB. Not uncommon; upon rocks and trees throughout the Central Province, and certainly indigenous.

Rami teretes. *Flores* albidi. *Calycis* segmenta 4–5, acuta, valde inæqualia, apice rubro-tincta. *Petala* 5–6, oblonga, obtusa. *Stamina* circiter 20. *Ovarium* incomplete 3–4-loculare, pluri-ovulatum. *Stylus* simplex. *Stigma* 3–4-lobatum. *Bacca* ovalis, albida, subtranslucens, pisi parvi magnitudine. *Semina* oblonga, nigra, nitida, inconspicue striata.

Digitized by Google

LXXV. SAXIFRAGACEÆ.

1. VAHLIA, Thunb.

1. **V. oldenlandioides,** Roxb. (W. et A. Prod. i. p. 364, cum syn.; Wight, Icon. t. 562.)—C.P. 1686.
HAB. Hot drier parts of the island.

2. **V. viscosa,** Roxb. (W. et A., l. c. cum syn.; Wight, Icon. t. 563.) —C.P. 1687.
HAB. Jaffna, *Gardner.*

LXXVI. UMBELLIFERÆ.

1. HYDROCOTYLE, Tournef.

1. **H. Asiatica,** Linn. (W. et A. Prod. i. p. 366, cum syn.; Wight, Icon. t. 565.)—? *H. lurida,* Hance in Walp. Ann. ii. 690.—C.P. 2810.
HAB. Very abundant up to the most elevated parts of the island. Nom. vulg. "Heen-gotoocola." Used by the Cinghalese as an anthelmintic.

2. **H. Javanica,** Thunb. (DC. Prod. iv. p. 67.)—*H. Nepalensis,* Hook. Ex. Fl. i. t. 30. *H. Zeylanica,* et var. β *Heyneana,* DC. l. c. *H. polycephala,* W. et A., l. c.; Wight, Icon. t. 1003.—C.P. 1634.
Var. β; *foliis, petiolis pedunculis*que plus minus villosis, *pedicellis* fructu maturo æquilongis.—An *H. globata,* Blume, Bijd. p. 883?—C.P. 2812.
HAB. Var. α. Very abundant up to an elevation of 3000 feet. Var. β. In the more elevated parts of the island, up to 7000 feet. Nom. vulg. "Maha-gotookola."

3. **H. nitidula,** Rich. (Hook. l. c. t. 29; DC. l. c. p. 66).—*H. rotundifolia,* Roxb. Fl. Ind. ii. p. 88; Wight, Icon. t. 564. An *H. ranunculoides,* L., var. *incisa,* Blume, l. c. p. 884?—C.P. 1635.
HAB. Central Province, up to an elevation of 7000 feet.
Folia subtus villosula. *Fructus* brevissime pedicellati, mericarpiis glabris ad latera 1-costata.

2. SANICULA, Tournef.

1. **S. Europæa,** L., var. *elata.*—*S. elata,* Ham.; W. et A., l. c. p. 367, cum syn.; Wight, Icon. tt. 334 et 1004.—C.P. 2813.
HAB. Newera Ellia and Maturatte.

3. HELOSCIADIUM, Koch.

1. **H. Heyneanum,** DC. (W. et A., l. c. p. 368, cum syn.)—*Sium triternatum,* Moon, Cat. p. 22.—C.P. 182.
HAB. Four Corles, *Moon.* Very abundant in the Oova District, up to an elevation of 4000 feet. Nom. vulg. "Wal-asamodagan."

Digitized by Google

4. PIMPINELLA, Linn.

1. **P. Leschenaultii,** DC. Pr. iv. p. 122; W. et A., l. c. p. 3; Wight, Icon. t. 1005.—C.P. 515 (530).

HAB. Between Horton Plains and Galagama, *Gardner*. Bopatalawa Plains, at an elevation of 6000 feet.

Caulis 1–4-pedalis, pilis deflexis hirsutus. *Folia* radicalia caulinaque cordato-orbicularia vel subdeltoidea, grosse dentata, superne glabra, subtus pilosula. *Umbellæ* radii sæpissime 12–20, *involucro* nullo. *Umbellularum* radii 15–20, *involucellis* circiter 6-phyllis. *Flores* albi.

My specimens of what I believe to be this species, are somewhat intermediate between those described by De Candolle and Wight and Arnott, and the *P. Candolleana* of the latter authors, but agree most essentially with the former in the character of the fruit, and in the leaves being glabrous above. Are they all forms of one species?

5. BUPLEURUM, Tournef.

1. **B. falcatum,** Linn., var.—*B. ramosissimum,* W. et A., l. c. p. 370; Wight, Icones, t. 1007. *B. virgatum,* W. et A., l. c. *B. nervosum,* Moon, Cat. p. 22.—C.P. 225 (508).

HAB. Oova District, *Moon*. Newera Ellia, Maturatte, and other elevated parts of the Central Province.

6. PALIMBIA, Bess., DC.

1. **P. ramosissima,** DC.—*Peucedanum Zeylanicum,* Gardn. MSS.—C.P. 135.

HAB. Above Galagama, *Gardner*.

In one of the specimens collected by Dr. Gardner there are the remains of a few-leaved involucrum at the base of one of the umbels.

7. HERACLEUM, Linn.

1. **H. Sprengelianum,** W. et A., l. c. p. 372; Wight, Icon. t. 1008.—C.P. 145.

HAB. Central Province, at an elevation of 6000 to 8000 feet.

Folia sparse pilosa vel subtus præcipue dense villosa, *segmentis* acutis vel rotundatis. *Mericarpii* vittæ commissurales aliquando 6, 2 exteriora multo breviora.

LXXVII. ARALIACEÆ.

1. HEDERA, Linn.

† *Stylis distinctis, denique divergentibus.* (ARALIA.)

1. **H. acuminata,** Wight, Icon. t. 1062; Walp. Ann. i. p. 358.—*H. parasitica,* Don, Pr. Fl. Nep. p. 188; DC. Prod. iv. p. 265.—C.P. 4.

HAB. Banks of streams, near Adam's Peak, at an elevation of 4000 to 5000 feet.

My specimens are 5–7-foliolate, but agree so well in every other respect with Dr. Wight's figure, that there can be but little doubt of the two plants being identical.

Digitized by Google

I adopt Wight's name in preference to Don's, as from what I observed of the small trees of this species, it had no appearance of being parasitical.

†† *Stylis brevibus, coadunatis.* (EUHEDERA.)

2. **H. racemosa,** Wight, Icon. t. 1015; Walp. l. c.—C.P. 549 (559).

HAB. Central Province, at an elevation of 3000 to 5000 feet.

Arbor magna, partibus novellis fugaci-ferrugineo-furfuraceis. *Paniculæ* sæpe valde elongatæ ramosæque. *Pedicelli* fasciculato-racemosi. *Flores* 5-7-meri.

This agrees in so many respects with Dr. Wight's figure and description, that it is most probably identical with his plant, though he makes no mention of the ferruginous tomentum upon the young parts, which however speedily disappears.

††† *Stylis nullis.* (PARATROPIA.)

* *Foliis digitatis.*

3. **H. Vahlii,** Thw. — *H. terebinthacea,* Vahl, Symb. iii. p. 42? *Paratropia terebinthacea,* Arn. Pug. 20 (338); Walp. Rep. ii. p. 433.—C.P. 1632.

HAB. Very abundant up to an elevation of 3000 feet. Nom. vulg. "Itta."

Arbor scandens, epiphyta, balsamiflora, partibus novellis glaberrimis. *Paniculæ juniores* bracteatæ; *bracteis* lanceolatis, 3–4 lin. longis, cito deciduis. *Umbellæ* 5–8-floræ. *Flores* 6–9-meri, sæpissime 8-meri. *Baccæ* flavæ.

Notwithstanding the discrepancy with Vahl's description of his plant, as having a single style of equal length with the stamens, there can be little doubt of the present being his species, as it is the common, and, I believe, the only one occurring in the lower part of the Island.

4. **H. exaltata,** Thw.; arborea; *foliolis* 7–9, majusculis, coriaceis, glabris, integris, oblongis, basi rotundatis vel subcordatis, petiolatis, venis non prominentibus; *umbellis* 10–15-floris, longiuscule pedunculatis, racemosis; *floribus* 8–9-meris.—An *Paratropia Wallichiana,* W. et A.?—C.P. 1633.

HAB. Central Province, at an elevation of 4000 to 6000 feet.

Arbor magna. *Partes novellæ* glabræ? *Foliola* 5–10 poll. longa, 2½–4 poll. lata; *petiolulis* ½–2½ poll. longis.

This would appear to be closely allied to *P. Wallichiana,* W. et A., if it be not identical with it, seeing how much the species vary in the number of parts of the flower.

** *Foliis* 1–3-*foliolatis.*

5. **H. emarginata,** Moon's Cat. p. 18; scandens, fruticosa, glabra; *foliis* petiolatis; *foliolis* 1-3-nis, sæpissime solitariis, cuneatis, subsessilibus, apice truncatis, emarginatis; *paniculis* folio longioribus, parce ramosis; *umbellis* longiuscule pedunculatis, 5–8-floris; *floribus* 5-meris.—C.P. 655.

HAB. Saffragam, *Moon.* Central Province, up to an elevation of 4000 feet.

Foliola 1–2½ poll. longa, 4–12 lin. lata, utrinque (sicca) promiuentim venosa, ad apicem incrassatum *petioli* 3–9 lin. longi articulata. *Flores* albidi, rubro-tincti, circiter 1¼ lin. in diam., margine calycina obscure 5-dentata.

Digitized by Google

LXXVIII. ALANGIACEÆ.

1. ALANGIUM, Linn.

1. **A. Lamarckii,** Thw.—*A. decapetalum*, Lam.; W. et A. Prod. i. p. 325, cum syn. *A. hexapetalum*, Lam.; W. et A., l. c. p. 326, cum syn. *A. tomentosum*, Lam.; DC. Prod. iii. p. 204.—C.P. 760 (1597, 1598, 1599, and 2498).

HAB. Hotter parts of the island, up to no great elevation. Nom. vulg. "Eepaatta."

The several forms of this species merge so completely into one another, that I find it quite impossible to separate them. The amount of pubescence and number of spines seem quite dependent upon the character of the climate, luxuriance of the plant, etc., specimens from the dry northern parts of the island being more strongly marked in that respect than those from the moister southern districts.

2. **A. glandulosum,** Thw.; *partibus novellis* rufo-furfuraceis; *foliis* ovatis vel oblongis, rostrato-acuminatis, basi 3-nerviis, superne glabris, subtus glandulis nitentibus minutissimis aspersis, ad axillas venarum primariarum glanduloso-porosis, petiolatis; *floribus* axillaribus, fasciculatis, externe glandulosis, parce hirsutis; *pedicellis* (petiolis subæquilongis) calycibusque rufo-glanduloso-furfuraceis.—C.P. 381.

HAB. Central Province, at an elevation of 2000 to 4000 feet.

Arbor parva, subscandens, plus minus spinosa. *Folia* 2½–6 poll. longa, 1–2½ poll. lata, *petiolo* circiter 3 lin. longo. *Calyx* parvus, 6–7-dentatus, basi 3–4-bracteolatus. *Petala* 5–6, ½ poll. longa. *Stamina* 15–20, interne prope basin pilosa. *Stylus* clavatus. *Stigma* discoideum, 4-radiatum. *Fructus* rufus, pulposus, sphæricus, 6 lin. in diam.

Closely allied to the last, but well distinguished by the deep-red glandular furfurescence of the young shoots, and of the pedicels and calyces, by the glandular petals and under-surface of the leaves, and by the much smaller flowers and fruit.

LXXIX. LORANTHACEÆ.

1. LORANTHUS, Linn.

Nom. vulg. "Pelilla."

Sect. 1. *Tribracteolati.*

1. **L. loniceroides,** Linn. (W. et A. Prod. i. p. 382, cum syn.; Wight, Icon. t. 303.)—C.P. 575, 2551 (1643).

HAB. Central Province, at an elevation of 4000 to 7000 feet.

2. **L. capitellatus,** W. et A., l. c.; Wight, Icon. t. 304.—C.P. 2814.

HAB. Central Province and Saffragam, up to an elevation of 3000 feet.

This, I suspect, is but a form of the preceding, which it very much resembles in many respects.

Sect. 2. *Involucrati.*

3. **L. Gardneri,** Thw.; *foliis* glabris, coriaceis, suboppositis, lanceolatis vel ovato-lanceolatis, basi rotundatis vel subcordatis, petiolatis; *involucris* subsessilibus, 5–6-phyllis, externe pilosulis, segmentis lanceolatis, flores 5–6 multo longiores cingentibus.—C.P. 1644.

Digitized by Google

HAB. Hantani, at an elevation of 3000 feet.

Ramuli teretes, glabri, rubro-nigrescentes. *Folia* 3–6 poll. longa, 1½–3 poll. lata (juniora rufescentia), *petiolo* 3–5 lin. longo. *Involucra* rubra, segmentis 3–6 lin. longis. *Flores* rubri, versus apicem virides, pollicares. *Corolla* 5-fissa, fissura antica longiore, infra medium attingente.

Sect. 3. *Unibracteolati.*

† *Corolla recta, æqualiter fissa.*

4. **L. Hookerianus,** W. et A., l. c. p. 381.—C.P. 1645.

HAB. Batticaloa, *Gardner;* Hantani and Maturatte, in the Central Province.

Spicæ solitariæ vel binæ. *Flores* flavo-rufescentes, 4 lin. longi.

5. **L. nodiflorus,** Thw.; *foliis* glabris, coriaceis, ovato-lanceolatis, acuminatis, basi parum angustatis, petiolatis; *floribus* parvis, axillaribus, sessilibus, confertis; *bracteola calyce*que furfuraceis; *corolla* glabra, 4-fissa.—C.P. 2589.

HAB. Damp forests in the Ambagamowa District, at no great elevation.

Ramuli compressi, glabri, *gemmis* parce furfuraceis. *Folia* 2½–5 poll. longa, 1–2½ poll. lata, *petiolo* 2–4 lin. longo. *Flores* rubri, 5 lin. longi.

6. **L. Neilgherrensis,** W. et A., l. c. p. 382; Wight, Icon. t. 1020.—C.P. 1647 (1648, 2483).

HAB. Central Province, at an elevation of 1000 to 7000 feet.

Pedunculi 2–9 lin. longi. *Corolla* rubro-sanguinea vel sæpius basi apiceque flavo-rubra, medio viridis.

May not this be a state of *L. elasticus,* Desv., from which it appears to differ but little except in its flowers being pedunculate?

†† *Corolla plus minus curvata, inæqualiter fissa.*

‡ *Corollæ segmentis* 5.

7. **L. longiflorus,** Desv. (W. et A., l. c. p. 384, cum syn.; Wight, Icon. t. 302.)—C.P. 198 (1648).

Var. β.—*L. amplexifolius,* DC.; W. et A., l. c.—C.P. 2414, 2721.

HAB. Var. *a.* Common in the warmer parts of the island. Var. β. Deltotte and Ambagamowa, up to an elevation of 3000 feet.

Var. α and β merge so insensibly into one another, that I have not the least doubt of their being the same species. The flowers vary very much in length and in intensity of colour.

8. **L. ensifolius,** Thw.; *foliis* glabris, oppositis, membranaceis, anguste falcato-lanceolatis, 3–5-nerviis, petiolatis; *racemis* axillaribus terminalibusque, 1–2-nis, folio subæquilongis, 10–20-floris; *pedicellis* ovario longioribus; *bracteolis* minutis.—C.P. 3453.

HAB. Near Ratnapoora, at an elevation of 1000 feet.

Ramuli teretes, glabri. *Folia* 2–4 poll. longa, ½–1 poll. lata, *petiolo* 2–4 lin. longo.

This species appears to be rare; I have not seen the flowers of it.

9. **L. suborbicularis,** Thw.; *partibus novellis* ferrugineo-furfuraceis; *foliis* coriaceis, rotundatis vel obovato-rotundatis, obtusis, 3-nerviis, basi plus minus acutis, petiolatis, (siccis) rugulosis; *racemis* axillaribus, 1–2-nis, tomentellis, folio brevioribus; *pedicellis* ovario subæquilongis; *calyce* subacute 5-dentato; *bracteola* ovario dimidio breviore; *corolla* 5-par-

Digitized by Google

tita, externe stellato-pilosula, segmentis linearibus; *baccis* oblongis.—C.P. 474.

HAB. Newera and other of the most elevated parts of the island.

Ramuli teretes, scabri, fusco-cinerei. *Folia* 1–2½ poll. longa, *petiolo* 2–4 lin. longo. *Flores* flavo-virides, apice rufescentes, pollicares.

10. **L. ligulatus,** Thw.; *foliis* glabris, carnoso-coriaceis, eveniis, linearibus vel oblongis, apice rotundatis, basi acutis, petiolatis; *racemis* glabris, paucifloris, folio brevioribus vel subæquilongis; *pedicellis* ovario longioribus; *bracteola* minuta, rotundata; *calyce* obscure denticulato; *corolla* glabra, 5-fissa, segmentis spathulato-linearibus acutis. — C.P. 1640.

HAB. Jaffna and Calpentyne, *Gardner.*

Ramuli teretes. *Folia* ¾–2 poll. longa, 2½–5 lin. lata, *petiolo* 1–2 lin. longo. *Flores* pollicares.

11. **L. cuneatus,** Heyne (W. et A., l. c. p. 385, cum syn.)—C.P. 2554 (2552 *partim*).

Var. β; *foliis* majoribus, plus minus stellato-puberulis, denique glabris.—*L. goodeniiflorus,* W. et A., l. c. *L. Candolleanus,* W. et A., l. c.; Wight, Icon. t. 305.

Var. γ; *floribus* longioribus, cum *pedunculis pedicellis*que breve incano-tomentosis.—C.P. 1641.

HAB. Varr. α and β. Very abundant in the warmer parts of the island, and very destructive to orange- and other fruit-trees. Var. γ. Jaffna, *Gardner.*

Varr. α and β merge imperceptibly into one another, and the more pubescent state of the latter seems to differ in nothing from *L. Candolleanus,* W. et A., as figured by Dr. Wight. I have not seen var. γ in a fresh state.

12. **L. sclerophyllus,** Thw.; *foliis* valde coriaceis, obovato-spathulatis, obtusis, brevi-petiolatis, plerisque 3-nerviis; *junioribus* fugacissime stellato-pubescentibus; *inflorescentia* subglabra; *pedunculis* axillaribus, 1–3-nis, brevibus, 2–5-floris; *pedicellis* umbellatis, ovario subæquilongis; *bracteola* ovario dimidio breviore; *calyce* 5-dentato.—C.P. 2442 (2552, *partim*).

HAB. Central Province, up to an elevation of 7000 feet.

Ramuli teretes, scabri. *Folia* ¾–3 poll. longa, 3 lin., 1½ poll. lata, *costa margine*que sæpissime rubris. *Flores* pollicares, flavo-rufescentes, segmentis corollæ anguste lanceolatis.

Closely allied to the preceding species, from which its very coriaceous, 3-nerved leaves distinguish it. *L. memecylifolius,* W. et A., judging from Dr. Wight's figure in Icones, t. 142, would appear to resemble the present plant in many respects, but the shape and venation of the leaves are different.

13. **L. tomentosus,** Heyne, (W. et A., l. c. cum syn.; Wight, Icones, t. 378.)

Var. *normalis;* ferrugineo- vel griseo-tomentosus; *foliis* superne denique glabris; *bracteolis* ovario brevioribus.—*L. incanus,* Moon's Cat. p. 26.—C.P. 1642.

Var. *lanuginosus; floribus* brevioribus, longe et dense lanatis; *bracteolis* sessilibus et ovario parum longioribus vel majoribus, foliaceis, stipitatis; cæteroquin ut in var. præced.—C.P. 2492.

HAB. Var. *normalis.* Abundant up to an elevation of 5000 feet. Var. *lanuginosus.* In the Oova and Maturatte Districts, from 3000 to 5000 feet.

Digitized by Google

I have little doubt that the first of the above varieties is the typical form of the species, whilst in the latter variety, as well as in others described by previous authors, the bracteoles must be looked upon as in an abnormal condition, putting on, as they do, more or less of a leaf-like appearance.

‡‡ *Corollæ segmentis* 4.

14. **L. buddleioides,** Desv. (W. et A., l. c. p. 383, cum syn.)—C.P. 2391.
HAB. Drier parts of the island, up to an elevation of 4000 feet.

2. VISCUM, Tournef.

1. **V. orientale,** Willd. (W. et A., l. c. p. 379, cum syn.)—*V. verruculosum,* W. et A., l. c.—C.P. 412 (480, 481, 1639).
HAB. Central Province, up to an elevation of 7000 feet.

2. **V. capitellatum,** Smith, (W. et A., l. c. p. 380, cum syn.)—C.P. 1638.
HAB. Very common in the warmer parts of the island, often parasitic upon species of *Loranthus.*

3. **V. spathulifolium,** Thw.; *ramis* elongatis, teretibus, trichotomis, singulis ad basin involucro parvo cupuliformi cinctis; *foliis* oppositis, anguste spathulatis, obtusis, 3-nerviis; *floribus* laxe spicatis.—C.P. 336.
HAB. Adam's Peak, *Gardner.*

4. **V. attenuatum,** DC. (W. et A., l. c. cum syn.)—C.P. 479, 1637.
HAB. Jaffna, Galagama, *Gardner.*

5. **V. moniliforme,** Blume (W. et A., l. c. cum syn.; Wight, Icon. tt. 1018, 1019.)—C.P. 295.
HAB. Common in the most elevated parts of the Central Province.

LXXX. CAPRIFOLIACEÆ.

SECT. *LONICEREÆ.*

1. DICHILANTHE, Thw.

Hook. Kew Journ. of Bot. viii. pp. 270, 376; Hook. fil. et Thomson in Linn. Soc. Journ. (Bot.) ii. p. 164.

1. **D. Zeylanica,** Thw. l. c.; H.f. et T. l. c. p. 174.—C.P. 3422.
HAB. In forests between Galle and Ratnapoora, at an elevation of 1000 feet.

SECT. *SAMBUCEÆ.*

2. VIBURNUM, Linn.

1. **V. erubescens,** Wall. (H.f. et T. l. c. p. 177, cum syn.)—C.P. 1636.
HAB. Horton Plains, at an elevation of 7000 to 8000 feet.

2. **V. hebanthum,** W. et A. Prod. i. 388; Wight, Icon. t. 1023.—*V. coriaceum,* Bl. Var. β. H.f. et T. l. c. *V. Zeylanica,* Gardn. MS. —C.P. 39 (73).

Digitized by Google

HAB. Very abundant in the Central Province, at an elevation of 5000 to 7000 feet.

LXXXI. RUBIACEÆ.

Sect. 1. *Corollæ segmentis æstivatione valvatis.*

† *Ovarii loculis bi-pluriovulatis.*

‡ *Placenta apicem prope loculi affixa, pendula.*

1. NAUCLEA, Linn.

† *Platanocarpum.*

1. **N. coadunata,** Roxb. (DC. Prod. iv. p. 344, cum syn.)—C.P. 1658.
HAB. Common in the warmer parts of the island. Nom. vulg. "Bakmee-gass."

†† *Nauclearia.*

2. **N. Cadamba,** Roxb. (DC. l. c. cum syn.)—*N. orientalis,* L. (*partim.*)—C.P. 1659.
HAB. Common up to an elevation of 2000 feet. Nom. vulg. "Halamba-gass."

3. **N. parvifolia,** Roxb. (DC. l. c. cum syn.)—*N. orientalis,* Linn. (*partim.*)—C.P. 780.
HAB. Hot, drier parts of the island.

4. **N. tubulosa,** Arn.; *foliis* glabris (junioribus ad nervos minutissime puberulis), ovatis, obtusis vel parum acuminatis, basi rotundatis subcordatisve, petiolatis; *stipulis* magnis, membranaceis, obovatis; *pedunculis* terminalibus, sæpissime ternis, intermedio breviore vel sessili; *calyce* cylindrico, subintegro, bracteolis obtusis longiore; *stigmate* longiusculo, utrinque truncato; *capsulis* majusculis, oblongis, polyspermis. —C.P. 1657.
Var. *β. minor; foliis capitulis*que minoribus.—C.P. 1656.
HAB. Var. *α.* Very abundant in the Kokool Corle. Var. *β.* Hot, drier parts of the island.

Arbor parva. *Folia* submembranacea, minutissime reticulata, 2–6 poll. longa, *petiolo* 4–6 lin. longo. *Capitula* in anthesi circiter 1½ poll. in diam. (var. *β pollicaria*), prope basin foliis stipulisque 2 deciduis bracteata. *Calyx* 1–1½ lin. longus. *Corolla* purpurea. *Antheræ* apiculatæ. *Capsula* 3–4 lin. longa.

††† *Pentacoryna.*

5. **N. cordifolia,** Roxb. (W. et A., l. c. cum syn.)—C.P. 1660.
HAB. Hot, drier parts of the island. Nom. vulg. "Colong-gass."

6. **N. peduncularis,** Wall. Cat. 6091; Walp. Rep. ii. p. 512.—*N. triflora,* Moon's Cat. p. 14. An *N. purpureæ,* Roxb., var.?—C.P. 2820.
HAB. Saffragam and contiguous districts, up to an elevation of 1000 feet, not uncommon. Central Province, rare.

Arbor mediocris, *ramulis* parce compressis. *Pedunculi* 1–2 poll. longi, *intermedius* parum longior, paulo infra medium bracteolis 4 parvis munitus. *Capitula* in anthesi 8–9 lin. in diam. *Corolla* ochracea, purpurascens.

Digitized by Google

2. UNCARIA, Schreb.

1. **U. Gambier,** Hunt. (DC. Prod. iv. p. 347, cum syn.)—C.P. 1661.

HAB. Deltotte District, in the Central Province, at an elevation of 3000 feet. Near Colombo, *Mr. W. Ferguson.*

Ramuli subtetragoni. *Folia* juniora subtus ad nervos parce hispida.

This is a variable species in the shape of the leaves and length of the petiole. It agrees so well with Roxburgh's description that I cannot doubt its being his plant. The Cinghalese make no use, as far as I can learn, of this plant.

‡‡ *Placenta medio dissepimenti adnata.*

3. LEUCOCODON, Gard.

Calc. Journ. of Nat. Hist. vol. vii. p. 5.

Florum capitula terminalia, solitaria, involucro magno campanulato inclusa. *Calyx* tubulosus, subinteger. *Corolla* infundibuliformis, 5-loba. *Filamenta* brevia. *Antheræ* oblongæ. *Ovarium* biloculare. *Ovula* plurima, reniformia. *Stylus* simplex, exsertus. *Stigma* bilobum, lobis oblongis, obtusis. *Fructus* baccatus. *Semina* numerosa, subrhomboidea, compressa.

1. **L. reticulatum,** Gard. l. c.—C.P. 347 (695).

HAB. Central Province, at an elevation of 3000 to 5000 feet.

Frutex scandens, epiphyticus, radicans. *Folia* oblongo-lanceolata, utrinque acuta, 3–6 poll. longa, 1–2 poll. lata, *petiolo* ⅛–¼ poll. longo. *Stipulæ* membranaceæ, oblongæ, apice bidentatæ, basi connatæ, pollicares. *Involucrum* albidum, viridescens, 1 poll. in alt., margine dentatum, brevi-pedunculatum. *Corolla* albida, circiter 8 lin. longa, *lobis* lanceolatis acutis *tubo* interne minute pilosulo brevioribus. *Bacca* alba, oblonga, 4 lin. longa. *Semina* striata, brunnea, medio nigra, ½ lin. longa.—*A descript. cl. Gardner præcipue excerpt.*

4. MUSSÆNDA, Linn.

1. **M. frondosa,** Linn. (W. et A., l. c. p. 393, cum syn.; Wight, Illust. ii. t. 124.)—C.P. 1664.

HAB. Very abundant throughout the island. Nom. vulg. "Maassenda."

The leaves are boiled and eaten as a vegetable by the Cinghalese.

5. ACRANTHERA, Arn.

Endl. Suppl. i. p. 1394.

1. **A. Zeylanica,** Arn. in Ann. of Nat. Hist. iii. p. 21.—C.P. 334.

HAB. On damp, shaded banks: in the Central Province, at an elevation of 3000 to 5000 feet.

6. NEUROCALYX, Hook.

1. **N. Zeylanicus,** Hook. Icon. Pl. ii. t. 174.—C.P. 286 (362).

HAB. Saffragam District, up to an elevation of 4000 feet.

The flowers of this and of all the following species are of a pale-purple colour.

2. **N. Wightii,** Arn. l. c. p. 20; Walp. Rep. ii. p. 515. An *N. Hookeriani,* Wight, Icon. t. 52, var.?—C.P. 595.

Digitized by Google

HAB. Warm, moister parts of the island, up to an elevation of 2000 feet.

3. **N. Gardneri,** Thw.; *foliis* majusculis, superne pilosulis, subtus ad nervos villosis, ovato-lanceolatis, acutis, obscure denticulatis, basi cuneatis; *stipulis* bipartitis; *segmentis* rotundatis, obliquis, longe acuminatis; *racemis* villosis; *bracteolis* oblongis, acuminatis, prope basin utrinque 1-dentatis; *segmentis calycinis* rotundatis, subcordatis, acuminatis.—C.P. 1671.

HAB. Pasdoon Corle, *Gardner*.

Its wider, more hairy leaves, and villous racemes, distinguish this from the preceding, to which it is in other respects very closely allied, and the two may possibly prove to be forms of one species.

4. **N. Championii,** Benth. MSS.; *foliis* oblongo-spathulatis, obtusis subacutisve, superne villosulis, denique subglabris, subtus ad nervos cum petiolo villosis; *stipulis* bipartitis; *segmentis* acutis, irregulariter 2–3-fissis; *racemis* villosis; *bracteolis* 3-partitis, segmentis lateralibus minoribus.—C.P. 3417, 3480.

HAB. Kokool Corle, up to no great elevation.

Folia 3–6 poll. longa, 1–2 poll. lata, *petiolo* ¼–1½ poll. longo.

7. SCHIZOSTIGMA, Arn.

Endl. Suppl. i. p. 1393.

1. **S. hirsutum,** Arn. Ann. of Nat. Hist. iii. p. 20.—C.P. 268.

HAB. Not uncommon in the south of the island, up to an elevation of 2000 feet.

Flores 1–3-ni. *Corolla* alba, 7–8 lin. in exp. *Bacca* cerasi parvi magnitudine.

8. AXANTHES, Blume.

1. **A. Zeylanica,** Wight, Icon. t. 1163.—C.P. 499 (707).

HAB. Central Province, at an elevation of 4000 to 7000 feet.

2. **A. elliptica,** Wight, Icon. t. 1164.—C.P. 359 (584).

HAB. In similar situations with the preceding.

The flowers and fruit of this and of the preceding species are of a dull orange-yellow colour.

‡‡‡ *Placenta versus basin loculi affixa, plus minus erecta.*

9. OPHIORRHIZA, Linn.

(Nom. vulg. "Datkatteya.")

1. **O. Mungos,** Linn. (W. et A. Prod. i. 404, cum syn.)—C.P. 1704.

HAB. Very abundant in damp, shady places.

2. **O. nemorosa,** Thw.; *caule* suberecto, parce ramoso; *foliis* glabris, lanceolatis, acuminatis, basi cuneatis; *stipulis* rotundatis, longe 1–2-setaceo-cuspidatis; *corymbis* terminalibus, pedunculatis, tomentosis; *bracteolis* minutis; *corolla* longiuscula.—C.P. 205 (215, 484).

HAB. Central Province, at an elevation of 3000 to 5000 feet.

Folia 2–6 poll. longa, ¾–1½ poll. lata. *Corolla* alba, rubro-tincta, *tubo* semipollicari.

3. **O. radicans,** Gardn. MSS.; *caule* procumbente; *petiolis pedun-*

Digitized by Google

*culis*que tomentosis; *foliis* parvis, ovatis orbicularibusve, acutis vel obtusis, basi rotundatis cordatisve, superne glabris, subtus ad nervos tomentosis; *corymbis* terminalibus, parvis; *pedunculo* foliis longiore; *bracteolis* parvis.—C.P. 1706.

HAB. Not uncommon in the forests of the Central Province.

Folia ½–1 poll. longa. *Corolla* alba, *tubo* 2 lin. longo, *limbo* 3 lin. in exp.

4. **O. angustifolia,** Thw.; *caule* erecto, glabro vel breve tomentoso; *foliis* anguste lanceolatis, utrinque angustatis, glabris vel subtus ad nervos tomentosis; *stipulis* setaceo-cuspidatis; *corymbis* laxis pedunculoque tomentosis; *bracteolis* linearibus, mediocribus; *alabastris* rugulosis.—C.P. 431.

HAB. Ambagamowa District.

Folia 1–4 poll. longa, 1½–8 lin. lata, subtus albida. *Corolla* alba, *tubo* 1 lin. longo, *limbo* 3–4 lin. in exp.

Resembling the next species in many respects, but the smaller, narrower leaves, and the lax corymbs with their shorter bracteoles, of the present plant, seem sufficient to keep them distinct.

5. **O. pectinata,** Arn. Pug. 20 (338); Walp. Rep. vi. p. 57.—C.P. 712 (1707).

Var. β; *corymbis* arcte compactis.—*O. imbricata,* Gard. MSS.—C.P. 750.

HAB. Abundant in the Central Province, up to an elevation of 5000 feet.

6. **O. pallida,** Thw.; *caule* tomentoso, plus minus procumbente; *foliis* hispidulis, lanceolatis vel ovato-lanceolatis, acuminatis, basi acutis vel rotundatis; *stipulis* setaceo-cuspidatis; *corymbis* compactis pedunculoque glabris vel rarius sparse pilosulis; *bracteolis* longiusculis, linearibus.—C.P. 711, 3344.

HAB. Forests in the Ambagamowa District.

Closely allied to the last, but distinguished by its more or less procumbent habit, its pubescent stems and leaves, and the latter, together with the corymbs, smaller and more delicate in texture.

7. **O. glechomæfolia,** Thw.; *caule* procumbente, villoso; *foliis* parvis, rotundatis ovatisve, cordatis, subacutis, superne villosulis, subtus ad nervos petioloque villosis; *corymbis* terminalibus, pedunculatis; *bracteolis* linearibus, longiusculis, cum *lobis calycinis* ciliatis.—C.P. 1708.

HAB. Forests of the Central Province.

Folia 3–10 lin. longa, sæpe rugulosa.

This bears a close resembance to *O. radicans,* differing from it however in its leaves being hairy on the upper surface, and in its relatively much longer-ciliated bracteoles and calyx-lobes.

10. HEDYOTIS, Lam.

1. **H. Lawsoniæ,** W. et A., l. c. p. 407, cum syn.; Wight, Icon. t. 1026.—C.P. 13, 1697 (102, 110).

HAB. Central Province, at an elevation of 5000 to 8000 feet.

Folia ovata vel plus minus anguste lanceolata, ½–4 poll. longa, membranacea vel subcoriacea.

A very common species, varying very much in appearance according to the character of the locality in which it occurs.

2. **H. evenia,** Thw.; fruticosa; *ramulis* acute 4-gonis, *junioribus*

Digitized by Google

pilosulis; *foliis* parvis, glabris, nitidis, coriaceis, eveniis, lanceolatis, acutis, basi rotundatis, petiolatis; *stipulis* triangularibus, pilosulis, apice parce glanduloso-tuberculatis; *paniculis* terminalibus, pilosulis. —C.P. 93.

HAB. Adam's Peak, *Gardner*.

Although this plant has a very dissimilar aspect to that of the preceding, yet I suspect it may prove to be but a variety of it.

3. **H. obscura,** Thw.; suffruticosa, erecta, (sicca) nigrescens; *ramulis* subteretibus; *foliis* glabris, lanceolatis, utrinque acutis, petiolatis; *venis primariis* parum conspicuis; *stipulis* triangularibus, plus minus connatis, pectinatim pinnatifidis, segmentis linearibus pilosis; *corymbis* axillaribus, pedunculatis, glabris, folio brevioribus, bracteolatis; *corolla* ad faucem pilosa.—C.P. 94 (111, 119).

Var. β; *foliis* ovatis vel ovato-lanceolatis; *venis primariis* subtus prominentibus et sæpe pilosulis; *bracteolis* parvis; *corollæ lobis* interne, et externe ad apicem pilosis.—C.P. 91, 101.

HAB. Central Province, at an elevation of 6000 to 8000 feet. Var. β, in rather shady places.

Apparently closely allied to *H. stylosa*, Br., but distinguished from it, judging from Dr. Wight's figure of that species in Icones, t. 1027, by its inflorescence not being terminal.

4. **H. Lessertiana,** Arn. Pug. 22 (339); Walp. Rep. ii. p. 492.—C.P. 99, 115 (123, 1702).

Var. β. *major; foliis floribus*que majoribus.—C.P. 96.

Var. γ. *confertiflora; foliis* coriaceis; *floribus* majoribus confertisque. —C.P. 103 (109, 1701).

Var. δ. *pilosa; ramulis foliis*que plus minus pilosis; *dentibus calycinis* brevibus, cæteroquin ut in var. *a*.—C.P. 2819.

HAB. Central Province. Varr. *a* and δ. Abundant at an elevation of 3000 to 5000 feet. Varr. β and γ. From 5000 to 8000 feet.

The extreme forms of this plant look very different, but they merge so insensibly into one another that I find it impossible to separate them as distinct species.

5. **H. flavescens,** Thw.; *ramulis* teretibus; *foliis* glabris, coriaceis; subeveniis, ovato- vel oblongo-lanceolatis, acutis; *costa* prope basin *petiolo*que dilatatis; *stipulis* scariosis, vaginantibus, persistentibus, prope marginem appendiculis linearibus, apice filamentosis denique caducis cinctis; *paniculis* terminalibus, compactis.—C.P. 86, 126.

HAB. Adam's Peak, and between Galagama and Horton Plains, at an elevation of 5000 to 7000 feet.

Folia 1–4 poll. longa, ½–1½ poll. lata, flavescentia, *petiolo* 1–6 lin. longo. *Corolla* ad faucem lanosa. *Fructus* oblongus, dentibus calycinis erectis, acutis, parce pilosis.

6. **H. quinquenervia,** Thw.; fruticosa, erecta; *ramulis* compressis; *foliis* parvis, coriaceis, subglabris, ovatis, obtuse brevi-acuminatis, 5-nerviis, subsessilibus, marginibus revolutis; *stipulis* connatis, cupuliformibus, externe pilosis plus minus setosisque, appendiculis linearibus, scariosis, pilosis, apice dilatatis fimbriatis, persistentibus; *capitulis* terminalibus, sessilibus.—C.P. 120.

HAB. Central Province, at an elevation of 7000 to 8000 feet.

Folia 3–8 lin. longa, flavescentia. *Calyx* 4-fidus, segmentis subacutis apice pilosis. *Corolla* alba, externe purpurascens, interne ad faucem pilosa. *Antheræ* oblongæ, purpureæ.

Digitized by Google

7. **H. verticillaris,** Wall. (W. et A., l. c. p. 409; Wight, Icon. t. 1029). —*H. plantaginifolia*, Arn. Pug. 22 (340).—C.P. 107.

HAB. Central Province, at an elevation of 7000 to 8000 feet.

8. **H. Gardneri,** Thw.; *foliis* confertis, glabris, nitidis, valde coriaceis, subeveniis, lanceolatis, acutis, basi ad petiolum dilatatum angustatis; *stipulis* oblongis, membranaceis, glabris, scariosis, persistentibus; *paniculis* terminalibus, elongatis, plurifloris, laxis, pluries trichotomis.—C.P. 116.

HAB. Adam's Peak, *Gardner*.

Rami circiter ½ poll. in diam., *stipulis* confertis squamosi. *Folia* 3–4 poll. longa. *Calyx* 4-dentatus, dentibus apice incrassatis parum reflexis.

9. **H. fruticosa,** Linn. (W. et A., l. c. p. 408, cum syn.)—C.P. 108, 2457.

HAB. Very abundant up to an elevation of 3000 feet. Nom. vulg. "Waranneya."

10. **H. cymosa,** Thw.; fruticosa, erecta, (sicca) nigrescens; *ramulis* lævibus, parum angulatis; *foliis* glabris, nitidis, anguste lanceolatis, utrinque acutis; *venis primariis* inconspicuis; *stipulis* triangularibus, longe acuminatis, carinatis, margine glanduloso-dentatis; *cymis* terminalibus, laxis, puberulis; *calyce* glabro, 4-partito; *segmentis* lanceolatis, acutis, demum recurvis; *corolla* externe glabra, fauce pilosa.—C.P. 3421.

HAB. Hinidoon Corle, at an elevation of 1000 feet.

Folia 2–3 poll. longa, 3–7 lin. lata.

Readily distinguished from *H. fruticosa*, to which it is very closely allied, by its regularly cymose lax inflorescence, and by the whole plant becoming black in drying.

11. **H. monosperma,** W. et A., l. c. p. 410, cum syn.; Wight, Icon. t. 1031.—C.P. 97 (112, 139).

Var. β. *subglabra*.—*H. Richardiana*, Arn. l. c. p. 22 (340); Walp. Rep. ii. p. 492.

HAB. Very abundant in the more elevated parts of the Central Province.

The whole plant is very fetid. It varies very much in the size and hairiness of the leaves.

12. **H. nummularia,** Arn. Pug. 23 (341); Walp. Rep. ii. p. 492. —C.P. 1692.

Var. β. *glabra*.—*H. nummulariformis*, Arn. l. c.; Walp. l. c. p. 493. —C.P. 113, 2817.

HAB. Abundant in wet, rocky places: in the Central Province, at an elevation of 5000 to 8000 feet.

Caules tetragoni. *Folia* 3–10 lin. longa, marginibus sæpe revolutis. *Flores* purpurei.

13. **H. auricularia,** Linn. (DC. Prod. iv. p. 420; W. et A., l. c. p. 412, cum syn.)—C.P. 1694.

HAB. Very abundant in the warmer parts of the island. Nom. vulg. "Gatta-cola."

The leaves are boiled, after being cut very small, and eaten by the Cinghalese with their rice.

14. **H. macrophylla,** Wall. (W. et A., l. c. p. 408, cum syn.)—C.P. 104, 466.

HAB. Forests about Adam's Peak.

Digitized by Google

Stipulæ membranaceæ, connatæ, setis dense pilosis limbo longioribus marginatæ. *Dentes calycini* lineari-lanceolati.

15. **H. nodulosa,** Arn. l. c. 22 (340); Walp. l. c. p. 493.—An *H. Walkeri*, Arn. l. c.; Walp. l. c.?

Var. α; *foliis* superne glabris vel obscure setulosis.—C.P. 87 (105, 1698).

Var. β; plus minus pilosa.—*H. axillaris*, Gardn. MSS.—C.P. 88, 3095, 3542 (106, 117, 121, 1699).

Hab. Central Province and Saffragam, at an elevation of 3000 to 7000 feet.

Folia 2–6 poll. longa, ½–2½ poll. lata, *petiolo* 2–10 lin. longo. *Stipulæ* membranaceæ, plus minus connatæ, dentibus subulatis brevioribus vel subæquilongis marginatæ. *Dentes calycini* subulati, recurvi.

A very variable species as regards the size and the amount of pubescence of the leaves, which are more or less tomentose or villous, or sometimes nearly altogether glabrous. From *H. macrophylla* it differs principally in the smaller, narrower teeth of the calyx.

16. **H. membranacea,** Thw.; suffruticosa, erecta, glabra; *foliis* oblongo-lanceolatis, acuminatis, basi acutis, petiolatis; *stipulis* appendiculis linearibus, longiusculis, scariosis fimbriatis; *floribus* dense glomerato-verticillatis; *segmentis calycinis* lanceolatis, scariosis.—C.P. 3621.

Hab. Pasdoon Corle, at no great elevation.—A specimen in the herbarium, collected by Moon, has no locality affixed to it.

Folia 4–6 poll. longa, 1–1½ poll. lata. *Corolla* parva, flava.

An obscure plant, and possibly, as suspected by Dr. Gardner, an abnormal state of one of the two preceding species.

17. **H. cyanescens,** Thw.; suffruticosa, basi decumbens, radicans; *ramis* acute tetragonis, glabris vel pilosulis; *foliis* plus minus villosulis, ovato-lanceolatis, utrinque acutis, petiolatis; *stipulis* brevibus, membranaceis, connatis, dentibus subulatis æquilongis marginatis, parce pilosis; *floribus* dense verticillatis; *segmentis calycinis* lineari-lanceolatis, ovario 3–4-plo longioribus, villosulis.—C.P. 2384.

Hab. Muruta, *Gardner*. Ambagamowa District, not common.

Folia ½–2½ poll. longa, *petiolo* 2–5 lin. longo. *Calycis* segmenta 2 lin. longa. *Corolla* albida, purpureo-tincta, externe glabra, *tubo* infundibuliformi fauce parum piloso.

The whole plant is often of a bluish-purple colour.

18. **H. inamœna,** Thw.; suffruticosa, erecta, subglabra; *ramis* subtetragonis; *foliis* lanceolatis, acuminatis, basi acutis, petiolatis, (siccis) fuscescentibus; *stipulis* triangularibus, pilosis, apice parum glandulosis, basi connatis, cito deciduis; *floribus* glomerato-verticillatis; *segmentis calycinis* lanceolatis, tubo corollæ brevioribus.—C.P. 95, 3543 (98).

Var. β; *foliis* latioribus, (siccis griseo-viridibus); *stipulis* longiuscule rostrato-acuminatis.—C.P. 2639.

Hab. Ambagamowa and Saffragam Districts.

Folia 3–5 poll. longa, ¾–2 poll. lata, *petiolo* 2–5 lin. longo.

19. **H. nitida,** W. et A., l. c. p. 412.—*H. Neesiana*, Arn. Pug. p. 23 (341).—C.P. 122.

Hab. Common in the warmer parts of the island. Nom. vulg. "Pittasooddoopala."

The leaves of this plant are finely chopped up, boiled, and eaten with rice, by the Cinghalese.

Digitized by Google

20. **H. cærulea,** W. et A., l. c.—C.P. 1674.
HAB. Sandy places, especially near the coast.

Div. *Oldenlandia.*

21. **H. umbellata,** Lam. (W. et A., l. c. p. 413, cum syn.)—*H. polygonoides*, Wall.—C.P. 125.
HAB. Abundant, especially near the sea. Nom. vulg. "Saayam-mool." Used as a dye by the Cinghalese.

22. **H. Burmanniana,** Br. (W. et A., l. c. p. 415, cum syn.)—*H. intermedia*, W. et A., l. c.—C.P. 1676, 2368.
HAB. Very abundant in the warmer parts of the island. Nom. vulg. "Wal-patpaadagam."

23. **H. racemosa,** Lam. (W. et A., l. c. p. 414, cum syn.; Wight, Icon. t. 312.)—*H. biflora*, Br.; W. et A., l. c. cum syn.—C.P. 1679.
HAB. Hotter parts of the island, common.

24. **H. quadrilocularis,** Thw.; herbacea, procumbens, ramosa, pilosula; *ramis* subteretibus; *foliis* ovato-lanceolatis, utrinque subacutis, petiolatis; *stipulis* membranaceis, rotundatis, ciliatis; *floribus* axillaribus terminalibusque, 1–2-nis, sessilibus; *ovario* 4-loculari, rarius 2–3-loculari.—C.P. 3132.
HAB. Badulla District, rare.

Folia ½–1½ poll. longa, ¼–¾ poll. lata, *petiolo* 1–5 lin. longo. *Calyx* turbinatus; *lobis* oblongis, ciliatis, interne setulosis, recurvis. *Corolla* tubulosa, interne glabra; *lobis* oblongis, acutis. *Stylus* filiformis, exsertus. *Stigmata* tot quot ovarii loculi, longiuscula, subclavata, reflexa. *Capsula* depressa, *loculis* ad basin dehiscentibus, circiter 3-spermis.

25. **H. trinervia,** (Rœm. et Sch.); W. et A., l. c. cum syn.—C.P. 1681.
HAB. Hotter parts of the island.

26. **H. Heynei,** Br. (W. et A., l. c. p. 416, cum syn.)—C.P. 1673.
HAB. Very common in the warmer parts of the island.

27. **H. maritima,** Wall. (W. et A., l. c. p. 417, cum syn.)—C.P. 1678.
HAB. Very common near the sea.

11. DENTELLA, Forst.

1. **D. repens,** Forst. (W. et A., l. c. p. 405, cum syn.)—C.P. 1683.
HAB. Warmer parts of the island, not uncommon.

†† *Ovarii loculis* 1-*ovulatis.*

‡ *Ovulis erectis.*

12. MORINDA, Vaill.*

1. **M. bracteata,** Roxb. (W. et A., l. c. p. 419, cum syn.; Wight, Illust. t. 126.)—An *M. citrifoliæ*, Linn., var.?—C.P. 765.

---

* The ovary in this genus appears to be normally two-celled, but these two cells are converted into four by the introverted carpellary leaves being so produced laterally as to reach the walls of the ovary. If this is the correct explanation of the ovarial structure, the genus would have to be placed in the previous division of the family, each cell in that case being really two-ovuled.

Digitized by Google

HAB. Not uncommon in the hotter parts of the island, in and near the gardens of the Cinghalese, who employ the roots as a dye. Nom. vulg. "Ahoo-gass."

Some fresh specimens of this plant, now before me, agree perfectly with Wight's figure of *M. bracteata*, whilst they so closely resemble too the figure in 'Hortus Malabaricus,' vol. i. t. 52, quoted for *M. citrifolia*, L., that I can scarcely believe our plant to be other than a form of the latter. Some of the capitula are without the bract-like appendage of the calyces, and the anthers are quite exserted in the flowers now under examination.

2. **M. exserta,** Roxb. (W. et A., l. c. cum syn. var. β.)—C.P. 1668.

HAB. Jaffna, *Gardner*. Badulla District, *J. Bailey, Esq*. Nom. vulg. "Ahoo-gass."

3. **M. umbellata,** Linn. (W. et A., l. c. p. 420, cum syn.)—*M. scandens*, Roxb. Fl. Ind. i. p. 548.—C.P. 1669.

HAB. Very common up to an elevation of 4000 feet. Nom. vulg. "Kirri-walla."

The tough stems of this plant are used, instead of ropes, by the Cinghalese for tying fences.

13. MEPHITIDIA, Reinw.

Lasianthus, Jack, Wight.

1. **M. Moonii,** Wight, in Calc. Journ. of Nat. Hist. vi. p. 504; Walp. Ann. ii. p. 760.—C.P. 92.

HAB. Abundant in the Saffragam District.

Frutex hispidus, parce ramosus. *Folia* superne glabra hispidulave. *Capitula* pedunculata vel sessilia. *Corolla* alba, 3 lin. in exp.; *tubo* brevi. *Bacca* hispidula, pulposa, rubra, subsphærica, cerasi magnitudine.

2. **M. Gardneri,** Thw.; fruticosa; *ramulis* compressis petiolisque strigosis vel hispidulis; *foliis* oblongo-lanceolatis, acuminatis, basi acutis, superne glabris, subtus pilosulis, venosis, venis secundariis numerosis parallelis; *stipulis* parvis, triangularibus, acutis, strigosis; *capitulis* sessilibus, pilosis; *segmentis calycinis* lanceolatis, acutis; *corolla* externe pilosula, interne villosa; *tubo* brevi.—C.P. 348 (1723).

HAB. Newera Ellia and Adam's Peak, *Gardner*.

Folia 3–8 poll. longa, 1½–2½ poll. lata, *petiolo* 2–5 lin. longo.

3. **M. tomentosa,** Thw.; fruticosa; *ramulis* teretibus, vix compressis petiolisque tomentosis; *foliis* coriaceis, lanceolatis, longe acuminatis, basi acutis, superne glabris, subtus præcipue ad nervos tomentosis, venis secundariis paucis subparallelis; *capitulis* pilosis, paucifloris, sessilibus; *segmentis calycinis* lanceolatis, acutis; *corolla* externe pilosa; *tubo* brevi.—C.P. 2711.

HAB. Ambagamowa District, at an elevation of 3000 feet.

Folia 2–4 poll. longa, ½–1 poll. lata, *petiolo* 3 lin. longo. *Corolla* albida. *Baccæ* pisi magnitudine, nigræ.

Closely allied to, and possibly a form of, the preceding species.

4. **M. rhizophylla,** Thw.; fruticosa; *ramulis* tenuibus, compressis, scabridis; *foliis* membranaceis, glabris, nitidis, delicatule venosis, lanceolatis, longe acuminatis, basi acutis, petiolatis; *capitulis* paucifloris, sessilibus; *calyce* piloso; *segmentis* lineari-lanceolatis, longiusculis.—C.P. 361.

HAB. Adam's Peak, *Gardner*.

Digitized by Google

Folia 2–3 poll. longa, ½–1 poll. lata, *petiolo* 1–2 lin. longo.

The specimens I have are not sufficiently perfect to enable me to complete the description of this species.

5. **M. protracta,** Thw.; fruticosa; *ramulis* compressis petiolisque strigosulis; *foliis* elongato-lanceolatis, a prope basin gradatim angustatis, acuminatis, mucronatis, superne glabris, subtus ad nervos strigosulis, basi subacutis, brevi-petiolatis; *venis primariis* 7–8, folii versus apicem porrectis; *secundariis* numerosis, transverse parallelis; *stipulis* minutis, triangularibus, strigosis; *capitulis* paucifloris, sessilibus; *calyce* minute 4-dentato.—C.P. 354.

HAB. Central Province, *Gardner*.

Folia 4–8 poll. longa, 1¼–2¼ poll. lata, *petiolo* 1–2 lin. longo.

I have not seen this species in a fresh state, and my specimens are too imperfect to enable me to describe the flowers and fruit.

6. **M. strigosa,** Wight, l. c. p. 512; Walp. l. c. p. 762.—C.P. 1725.

HAB. Common in the Central Province and the Saffragam District, at an elevation of 2000 to 5000 feet.

Folia 2½–5 poll. longa, 1–2 poll. lata, *petiolo* 2–4 lin. longo, *venis secundariis* transverse parallelis. *Corolla* albida, externe pilosula; *tubo* 3 lin. longo; *limbo* circiter 4 lin. in exp., interne villoso. *Baccæ* subsphæricæ, opacæ, nigræ, circiter ⅓ poll. in diam.

7. **M. Walkeriana,** Wight, l. c. p. 513; Walp. l. c.—C.P. 289 (340, 1728).

HAB. Central Province, up to an elevation of 5000 feet.

Folia glabra vel subtus ad nervos parce strigosa, oblongo- vel lineari-lanceolata, basi acuta, 2–5 poll. longa, 4–14 lin. lata, *petiolo* 1½–3 lin. longo. *Corolla* externe pilosula, *tubo* brevi, *limbo* interne villoso. *Baccæ* nigræ, pisi magnitudine.

The narrower, more acuminated, less pilose leaves and shorter flowers, principally distinguish this from the last species. In *M. strigosa* too the calyx-tube is much longer than in the present plant. I suspect, however, that they will prove to be only forms of one species; and *M. protracta*, Thw., will probably have to be united with them as a more rare variety.

8. **M. oligantha,** Thw.; fruticosa; *ramulis* compressis, scabridis; *foliis* oblongis, rostrato-acuminatis, basi rotundatis, utrinque venosis, glabris vel subtus ad nervos pilosulis, brevi-petiolatis; *stipulis* parvis, oblongis, pilosis; *capitulis* paucifloris, sessilibus; *floribus* parvis; *dentibus calycinis* brevibus, acutis.—C.P. 357 (1726, 1727).

Var. β. *obliqua; foliis* subsessilibus, basi cordatis, obliquis.—C.P. 3418.—An species distincta?

HAB. Var. α. Hantani District. Var. β. Saffragam District, up to an elevation of 3000 feet.

Var. α closely approaches some states of *M. strigosa*, Wight, and is not improbably a form of it growing in poor or dry soil. The whole genus *Mephitidia* requires much investigation before the extent of variation to which the species are liable can be satisfactorily determined.

9. **M. varians,** Thw.; fruticosa, glabra; *ramulis* striatis, parum compressis; *foliis* coriaceis, ovatis vel oblongis, acutis retusisve, mucronatis, basi angustatis, petiolatis, utrinque reticulatim venosis; *stipulis* parvis, subacutis, apice pilosis; *capitulis* pedunculatis subsessilibusve, paucifloris; *dentibus calycinis* brevibus, triangularibus, acutis; *corolla* albida; *tubo* brevi; *limbo* interne villoso.—C.P. 57 (80, 290, 422, 423).

HAB. Central Province, at an elevation of 5000 to 8000 feet.

Folia 1–2½ poll. longa, 4 lin. ad 1½ poll. lata, *petiolo* 2–4 lin. longo. *Corolla* albida. *Baccæ* nigræ, pisi magnitudine.

Digitized by Google

14. ALLÆOPHANIA, Thw. (gen. nov.).

Flores polygamo-dioici. *Calyx* tubulosus, 4-dentatus. *Corolla* infundibuliformis, 4-loba. *Stamina* 4, fauce inserta, *filamentis* (in flor. ster.) valde exsertis, *antheris* oblongis dorso affixis. *Ovarium* 4-loculare. *Stylus* filiformis (in flor. fert.), valde exsertus. *Stigma* 4-lobum, lobis pilosis. *Bacca* sicca, parva, 4-sperma. — Frutex, Mephitidiæ *valde affinis, sed facie* Hedyotidis; ramulis *subtetragonis;* foliis *membranaceis;* stipulis *connatis, tubulosis, scariosis, striatis, ad marginem subaristatis;* capitulis *multifloris, axillaribus, sessilibus;* floribus *parvis, albis, purpureo-tinctis.*

1. **A. decipiens,** Thw.; *foliis* lanceolatis, acuminatis, basi acutis, pilosulis vel glabris, subtus ad nervos adpresse pilosis.—C.P. 3093.

Var. *β. flavescens,* Thw.; *foliis* plus minus pilosis, subtus ad nervos villosis, ovatis, acutis, basi cordatis rotundatis vel subacutis, petiolatis sessilibusve.—C.P. 3094 (114).

HAB. Central Province, at an elevation of 3000 to 5000 feet. Var. *β*, up to an elevation of 7000 feet.

Folia 1½–5 poll. longa, ½–1½ poll. lata, *petiolo* 2–8 lin. longo.

In general appearance this species bears a very great resemblance to *Hedyotis nodulosa,* Arn.

15. GRUMILEA, Gærtn., W. et A.

1. **G. elongata,** Wight, Icon. t. 1036.—C.P. 1719.

HAB. Central Province, at an elevation of 4000 to 7000 feet.

2. **G. nudiflora.**—*Psychotria? nudiflora,* W. et A., l. c. p. 434. An *G. nigra,* Gærtn. De Fruct. i. p. 138. t. 28. f. 2?—C.P. 18 (2707 *partim*).

HAB. Very abundant in the Central Province, at an elevation of 3000 to 6000 feet.

Corymbi ad nodos ferrugineo-pilosi. *Flores* sæpissime 5-meri. *Baccæ* læves, nigræ, subsphæricæ, pisi magnitudine.

3. **G. stenophylla,** Thw.; glabra; *ramulis* compressis, ad foliorum axillas glandulosis ferrugineo-villosisque; *foliis* lineari-lanceolatis, acuminatis, basi acutis, brevi-petiolatis; *stipulis* rotundato-triangularibus, brevi-cuspidatis, cito deciduis; *corymbis* longe-pedunculatis, 5-radiatis, ebracteolatis ?, ad nodos ferrugineo-villosis; *floribus* ad radiorum apices pluribus, confertis; *calyce* sinuatim 5-dentato, *corollæ tubo* brevissimo, fauce piloso.—C.P. 2609.

HAB. Damp forests, at no great elevation, in the central and southern parts of the island.

Folia 2–6 poll. longa, 4–12 lin. lata, *petiolo* 2–3 lin. longo. *Baccæ* læves, sphæricæ, nigræ, pisi magnitudine.

4. **G. Gardneri,** Thw.; glabra; *ramulis* compressis; *foliis* cuneato-oblongis, subito longiuscule cuspidatis, petiolatis; *stipulis* triangularibus, subacutis, cito deciduis; *corymbis* pedunculatis, ter quaterve umbellatim ramosis, multifloris, bracteolatis; *bracteolis* latis, brevibus, rotundatis; *floribus* 3–4-nis, sessilibus; *calyce* obscure 5-dentato; *corollæ tubo* brevissimo; *baccis* sphæricis, lævibus, parvis.—C.P. 1718.

HAB. Central Province, at an elevation of 3000 to 6000 feet, not very common.

Folia 5–12 poll. longa, 1–3½ poll. lata, *petiolo* 2–8 lin. longo. *Baccæ* nigræ.

Digitized by Google

5. **G. Wightiana,** Thw.—*Lasianthus? dubius,* Wight, in Calc. Journ. Nat. Hist. vi. p. 516.—C.P. 586.

HAB. Banks of streams, in the Ambagamowa and Saffragam Districts, at no great elevation.

Frutex parvus. *Ramuli* compressi, pilosi, denique glabri. *Folia* ovato- vel oblongo-lanceolata, acuminata, basi cuneata, petiolata, superne glabra, subtus pilosa, ad nervos tomentosa, 4–8 poll. longa, 1½–4 poll. lata, *petiolo* 4–8 lin. longo. *Stipulæ* oblongæ, connatæ, pilosæ, margine scariosæ. *Corymbi* tomentosi, basi trichotomi, bracteolati, *divisionibus primariis* apice 3–5-tomis, lateralibus sæpe reflexis. *Bracteolæ* parvæ, obtusæ. *Flores* sessiles, capitellati. *Calyx* tubulosus, breve 5-dentatus, interne glaber. *Corolla* pilosula, *tubo* brevi. *Baccæ* pilosæ, subsphæricæ, 3–4 lin. in diam. (siccæ), subcarinatæ.

6. **G. affinis,** Thw.; *ramulis* compressis, scabridis; *foliis* oblongo- vel lineari-lanceolatis, acuminatis, basi cuneatis, longiuscule petiolatis, glabris vel subtus ad nervos pilosulis; *stipulis* oblongis, pilosis; *corymbis* tomentosis, bracteolatis, basi trichotomis, divisione intermedia sæpe ad apicem trichotoma; *floribus* sessilibus, capitatis; *calyce* tubuloso, obscure 5-dentato; *baccis* pilosis, pisi magnitudine.—C.P. 2706.

HAB. Similar situations to the last species.

Præcedenti valde affinis et ejusdem forsan varietas.

7. **G. Moonii,** Thw.; *ramulis* glabris, compressis; *foliis* glabris, oblongis, abrupte acuminatis, basi cuneatis, petiolatis; *stipulis* oblongis, connatis, apice ciliatis, minute 1–2-dentatis; *corymbis* glabris, bracteolatis, basi trichotomis; *divisionibus lateralibus* reflexis; *centrali* apice trichotoma; *floribus* sessilibus, capitatis, bracteolis majusculis rotundatis ciliatis intermixtis; *calyce* tubuloso, 5-dentato, margine ciliato; *baccis* oblongis (siccis), utrinque obscure 4-sulcatis.—C.P. 585.

HAB. Reigam Corle, at no great elevation.

Folia 4–8 poll. longa, ½–3½ poll. lata, *petiolo* 4–8 lin. longo.

This species, with *G. Wightiana* and *G. affinis,* forms an approach to the next genus, the albumen of their seeds being less evidently ruminate than in the other species of *Grumilea* herein described, and more or less sulcate by the intrusion of folds of the testa. It would perhaps be most desirable to form of *Grumilea* a section of *Psychotria,* seeing that it is quite impossible to determine, in the absence of tolerably mature fruit, to which of the two genera certain plants should be referred.

16. PSYCHOTRIA, Linn.

§ *Seminibus, cum albumine incluso, dorso 4-sulcatis.*

1. **P. sarmentosa,** Blume, Bijd. p. 964; DC. Prodr. iv. p. 522.—*P. scandens,* Hook. et Arn. Bot. Beech. Voy. p. 193; Walp. Rep. ii. p. 471.—C.P. 1712.

HAB. Not uncommon, up to an elevation of 4000 feet.

Flores pallide virides, fauce intus flavo-pilosa. *Baccæ* albæ.

§§ *Seminibus, cum albumine incluso, dorso 2-sulcatis.*

2. **P. bisulcata,** W. et A., l. c. p. 434; Wight, Icon. t. 1039.—C.P. 158 (669).

Var. β; *foliis* longioribus, minus coriaceis; *floribus* parum minoribus; *seminibus* longioribus, latius sulcatis.—C.P. 1720. (An species distincta?)

Digitized by Google

HAB. Var. *a*. Abundant in the Central Province, at an elevation of 5000 to 7000 feet. Var. *β*. From 2000 to 4000 feet.

3. **P. plurivenia,** Thw.; glabra; *ramulis* compressis; *foliis* lineari-lanceolatis, acuminatis, basi acutis, breve petiolatis, pluriveniis; *stipulis* oblongis, longe acuminatis, cito deciduis; *corymbis* terminalibus, basi trichotomis; *floribus* ternis, pedicellatis; *calyce* longiuscule 5-dentato; *corollæ tubo* brevi, fauce hirsuto; *baccis* (siccis) fusiformibus; *seminibus* late sulcatis.—C.P. 2652.

HAB. Hewahette, in the Central Province, at an elevation of 3000 to 4000 feet.

Folia 2½–4½ poll. longa, 5–12 lin. lata, *petiolo* 2 lin. longo.

This species is apparently very closely allied to *P. polyneura*, DC.

4. **P. longipetiolata,** Thw.; *ramulis* compressis; *foliis* glabris, ellipticis vel oblongis, basi rotundatis vel parce acutis, longe petiolatis; *stipulis* oblongis, acutis; *corymbis* minutissime pilosulis, pedunculatis, 5-radiatis; *radiis* trichotomis, cymellis 7-floris terminatis; *calyce* brevi, 5-dentato; *corollæ tubo* brevissimo; *baccis* oblongis; *seminibus* latissime sulcatis.—C.P. 2707.

HAB. Saffragam District, at an elevation of 3000 to 4000 feet.

Folia flavescentia, 3–7 poll. longa, 1–3 poll. lata, *petiolo* 1–2 poll. longo.

5. **P. sordida,** Thw.; *ramulis* compressis, glabris vel minutissime puberulis; *foliis* subcoriaceis, oblongis, plus minus acuminatis, basi acutis, petiolatis, venis secundariis inconspicuis; *stipulis* oblongis, sæpe brevicuspidatis; *pedunculis* 3-nis, terminalibus, glabris vel minutissime puberulis; *floribus* sessilibus, 3–4-nis; *calyce* brevi, 5-dentato; *corolla* brevi, infundibuliformi, interne glabra; *baccis* oblongis.—C.P. 333, 355, 1716 (390, 442, 1713).

HAB. Central Province, at an elevation of 4000 to 8000 feet.

Folia 1–4 poll. longa, ½–1¼ poll. lata, *petiolo* 2–5 lin. longo.

A very variable species as regards the shape of the leaves, which are oblong-lanceolate, with a long acumination, or more rarely ovate and shortly acuminated.

17. PRISTIDIA, Thw. (gen. nov.).

Calyx brevissimus, annuliformis. *Corolla* infundibuliformis, (ante anthesin oblonga, apice acute 4-costata); *tubo* brevi; *limbo* 4-lobo. *Stamina* fauce inserta; *filamentis* brevibus; *antheris* majusculis, oblongis, exsertis. *Stylus* simplex. *Stigma* oblongum, bilobum.—Frutex *glaber, 5–6-pedalis;* ramulis *lævibus, parum compressis;* foliis *lævibus, parce venosis, oblongis, acuminatis, basi subacutis, petiolatis;* stipulis *oblongis, basi connatis, apice bidentatis;* cymis *longe pedunculatis, minute bracteolatis, supra-axillaribus vel rarius terminalibus, divisionibus ultimis spiciformibus;* floribus *parvis, late sessilibus, secundis.*

1. **P. divaricata,** Thw.—*Grumilea? divaricata*, Thw. MSS. in Herb. Hook.—C.P. 2991.

HAB. Māpalagam, near Galle, at no great elevation.

Folia 3–7 poll. longa, 1–2½ poll. lata, *petiolo* 3–4 lin. longo. *Cymæ* foliis subæquilongæ. *Corolla* pallide viridis, externe minute puberula, interne parce pilosa.

I suspect that this species is polygamo-dioicous, and that I have only the barren flowers: the fruit I have not seen. *Psychotria tortilis*, Blume, is probably a congener of this plant.

Digitized by Google

18. CHASALIA, Comm., DC.

1. **C. curviflora,** Thw. — *Psychotria curviflora* et *P. ophioxyloides*, Wall. in Roxb. Fl. Ind. ii. pp. 167, 168; DC. Prod. iv. p. 520. *P. ambigua*, W. et A., l. c. p. 433.—C.P. 1714 (133, 391, *partim*).

HAB. Not uncommon, in shady places, up to an elevation of 4000 feet.

Flores polygamo-dioici, *fertiles* breviores, stigmate exserto.

The structure of the fruit of this plant so precisely resembles that of *Chasalia*, as described by authors, that there can scarcely be a doubt of the propriety of referring it to that genus, as suggested by Wallich, at a time, too, it would appear, he was not acquainted with the fruit, since he has not described that organ.

19. GEOPHILA, Don.

1. **G. reniformis,** Don, (W. et A., l. c. p. 436, cum syn.; Wight, Icon. t. 54).—C.P. 1705.

HAB. Not uncommon in the Central Province.

20. SERISSA, Comm.

Bl. Bijd. p. 969. Endl.

Dysodidendron,* Gardner, in Calc. Journ. of Nat. Hist. vol. vii. p. 2.

1. **S. Ceylanica.**—*Dysod. Ceylanicum*, Gard. l. c.—C.P. 261 (344, 433, 1710, 1711).

HAB. Not uncommon in forests of the Central Province.

Frutex 8–12-pedalis, glaber, *ramis* dichotomis, parum compressis, pallidis. *Folia* membranacea, oblonga vel oblongo-lanceolata, acuminata, basi plus minus acuta, brevi-petiolata, 2½–6 poll. longa, ¾–2½ poll. lata, *petiolo* 1–3 lin. longo. *Stipulæ* breves, plus minus connatæ, aristato-3-cuspidatæ, deciduæ. *Pedunculi* axillares terminalesque, 1–3-flori, folio multum breviores. *Pedicelli* basi apiceque 2-bracteolati, *bracteolis* connatis. *Flores* 4-meri. *Calyx* sinuato-4-dentatus. *Corolla* infundibuliformis, extus minute pubescens, fauce villosa, *limbo* 5–7 lin. in exp. *Baccæ* cyaneo-purpureæ, ovoideæ vel oblongæ, 4–9 lin. longæ, 1-loculares, 1–2-spermæ.—*A descript. cl. Gardner præcipue excerpt.*

2. **S. Gardneri,** Thw.; fruticosa, glabra, dichotomo-ramosa; *foliis* ovatis vel ellipticis, acuminatis, subsessilibus, basi rotundatis cordatisve; *stipulis* connatis, aristato-3-cuspidatis; *floribus* paucis, terminalibus, subsessilibus; *calyce* acute 4-fisso.—C.P. 82.

HAB. Forests about Galagama, not uncommon.

Folia 1¼–4 poll. longa, ½–2 poll. lata. *Corolla* alba, *limbo* 3 lin. in exp. *Baccæ* purpureo-cæruleæ, subsphæricæ, 4–5 lin. in diam.

This would seem to differ very slightly, except in having fewer flowers, from Dr.

---

* I can find no structural character of sufficient importance to distinguish generically Dr. Gardner's species of *Dysodidendron* from *Serissa* of Commerson, as described by Blume; though the dichotomous ramification and much larger leaves of the former give them a different aspect to *Serissa fœtida*, Comm., with its virgate habit, small leaves, and abbreviated ramuli. Dr. Wight, in describing his *Lasianthus? fœtens* in Calc. Journ. vol. vi. p. 517 (*Dysod. Wightii*, Gard.), remarks upon its accordance in many respects with *Serissa*.

Digitized by Google

Gardner's *Dysod. glomeratum*, from the Peninsula of India; but I have no specimens of the latter for comparison.

3. **S. scabrida,** Thw.; fruticosa; *ramulis* scabridis; *foliis* ellipticis, acuminatis, basi acutis, glabris; *costa petiolo*que scabridis; *stipulis* connatis, aristato-fimbriatis, scabridis; *floribus* terminalibus, sessilibus; *calyce* piloso, dentibus 4, lineari-lanceolatis.—C.P. 3306.
HAB. Near Ratnapoora.

The single specimen I possess of this plant has leaves 2 to 3 inches long and ¾ to 1¼ inch wide, with a petiole about a quarter of an inch long. The flowers and ripe fruit I have not seen.

21. HYDROPHYLAX, Linn.

1. **H. maritima,** Linn. (W. et A., l. c. p. 441, cum syn.; Wight, Icon. t. 760.)—C.P. 1672.
HAB. Common near the sea-shore. Nom. vulg. "Moohoodoo-gattacola.

22. RUBIA, Tourn.

1. **R. cordifolia,** Linn. (W. et A., l. c. p. 442, cum syn.; Wight, Icon. t. 187.)—C.P. 2705.
HAB. Abundant near Badulla, *Mr. Ondaatze.* Not uncommon throughout the Central Province.

23. GALIUM, Linn.

1. **G. asperifolium,** Wall. (W. et A., l. c. cum syn.)—C.P. 1682.
HAB. Central Province, at an elevation of 5000 to 7000 feet.

24. BORRERIA, Mey., DC.

1. **B. ocymoides,** DC. Prod. iv. p. 544; Burm. Fl. Ind. xxxiv. t. 13. fig. 1.—C.P. 1684.
HAB. South of the island, *Moon, Gardner, Ferguson.*

25. SPERMACOCE, Linn.

1. **S. hispida,** Linn. (W. et A., l. c. p. 438, cum syn.)—An *S. articularis*, Linn. fil.; W. et A., l. c. cum syn.?—C.P. 1695, 1696.
HAB. Very abundant.

I find it quite impossible to separate satisfactorily what I take, judging from the relative length of the corolla-tube, to be these two reputed species, and doubt their being really distinct.

‡‡ *Ovulis pendulis.*

26. KNOXIA, Linn.

1. **K. corymbosa,** Willd. (W. et A., l. c. p. 439, cum syn.; Wight, Illust. ii. t. 128.)—C.P. 3619 (1691 *partim*).
HAB. Central Province, up to an elevation of 5000 feet.

Corymbi rami ultimi pauciflori. *Fructus* 1½ lin. longi, 1 lin. lati.

Digitized by Google

2. **K. stricta,** Gærtn. De Fruct. i. p. 122. t. 25.—*K. mollis,* Br.; W. et A., l. c. cum syn.—C.P. 3620 (1691 *partim*).

HAB. Common in the Central Province, on the hills.

Corymbi rami ultimi pluriflori. *Fructus* ¾ lin. longus.

Differs from the last in its longer, narrower leaves, its subumbellate and elongated branches of the corymb, and in its much smaller cocci.

3. **K. Zeylanica,** Linn. (W. et A., l. c. p. 440, cum syn.; excl. *K. stricta,* Gært.)—C.P. 1690.

HAB. Common in the southern parts of the island, up to no great elevation. Nom. vulg. "Ella-rat-mool."

4. **K. platycarpa,** Arn. Pug. 26 (344); Walp. Rep. ii. p. 468.—C.P. 1689 (2470).

Var. β. *hirsuta.*—*K. hirsuta,* Arn. l. c.; Walp. l. c. p. 469.—C.P. 1688.

Var. γ. *foliosa; foliis* majoribus, plus minus hirsutis, ovatis vel lanceolatis; *corymbis* foliosis; *lobis calycinis* longioribus (uno maximo sicut in varr. aliis).—C.P. 51 (118, 210, 422, 505).

HAB. Very abundant in the Central Province, at an elevation of 4000 to 7000 feet. Varr. α and β, amongst grass; var. γ, in damp, rich ground.

An extremely variable species as regards the size of the leaves and amount of pubescence on the several parts of the plant, but the several forms merge insensibly into one another.

27. CANTHIUM, Lam.

1. **C. didymum,** Gærtn. (W. et A., l. c. p. 425, cum syn.)—*C. umbellatum,* Wight, Icon. t. 1034. *C. undulatum,* Champion, in Hook. Kew Journ. of Bot. iv. p. 198.—C.P. 1667, 3511.

Var. β. *lanceolatum.*—*C. lanceolatum,* Arn. Pug. 24 (342).—C.P. 2513.

Var. γ. *rostratum; foliis* ellipticis, rostrato-acuminatis; *floribus* paucioribus, subumbellatis, parum longioribus; *fructibus* parum majoribus.—C.P. 2607.

Var. δ. *grandifolium; foliis* multo majoribus, superne nitidissimis.—C.P. 3419.

HAB. Varr. α and β, abundant up to an elevation of 4000 feet; varr. γ and δ, near Ratnapoora.

2. **C. montanum,** Thw.; arboreum, inerme; *foliis* valde coriaceis, ovatis vel orbicularibus, obtusis, pauciveniis, brevi-petiolatis; *pedunculis* axillaribus; *floribus* 5-meris, subumbellatis.—C.P. 2610, 2653.

Var. β. *minus; foliis* minoribus, utrinque parum angustatis; *pedicellis* post anthesin recurvis.—C.P. 1685.

HAB. Central Province, at an elevation of 4000 to 7000 feet.

Præcedenti valde affinis, et quoad inflorescentiam varietati γ ejusdem simillima, forsan varietas.

3. **C. parviflorum,** Lam. (W. et A., l. c. p. 426, cum syn.)—C.P. 1662 (1653).

HAB. Very abundant up to an elevation of 4000 feet.

4. **C. macrocarpum,** Thw.; fruticosum, subscandens, spinosum; *ramulis* teretibus, rufo-pilosulis; *foliis* lanceolatis, acuminatis, basi

Digitized by Google

rotundatis, utrinque rufo-pilosulis; *petiolo nervis*que tomentosis; *cymis* pilosis, axillaribus, brevibus, pedunculatis; *pedicellis* calyce subæquilongis; *floribus* 5-meris; *baccis* majusculis, rotundatis, parum compressis, emarginatis; *seminibus* tuberculatis.—C.P. 2816.

HAB. Hantani, at an elevation of 3000 feet.

Folia 1½–3 poll. longa, ¾–1¼ poll. lata, *petiolo* 2–3 lin. longo. *Calyx* minute 5-dentatus. *Corolla* fusco-albida, *lobis* lanceolatis, *tubo* interne piloso parum longioribus. *Stamina* exserta. *Baccæ* pollicares.

5. **C. Rheedei,** DC. (W. et A., l. c. cum syn.; varr. β et γ.)—C.P. 1666.

Var. δ. *minus; foliis* minoribus; *spinis* rectis, adscendentibus; *alabastris* subito attenuatis, acutis.—C.P. 3420.—An species distincta?

HAB. Southern and central parts of the island, up to no great elevation. Var. δ. Near Ratnapoora.

6. **C. campanulatum,** Thw.; fruticosum, subscandens, spinosum; *ramulis* teretibus, pilosis; *foliis* parvis, glabris, rotundatis, ovatis vel lanceolatis, obtuse acuminatis, apiculatis, petiolatis; *fasciculis* 1–4-floris, axillaribus; *pedicellis* petiolo multum longioribus; *alabastris* acutis, medio constrictis; *corolla* campanulata; *limbo* 5-lobo; *baccis* obcordatis, compressis; *seminibus* tuberculatis.—C.P. 2472.

HAB. Deltotte, in the Central Province, at an elevation of 3000 feet; not common.

Folia 5–14 lin. longa, 3–8 lin. lata, *petiolo* 1–1½ lin. longo. *Pedicelli* glabri, tenues, 3–4 lin. longi. *Calyx* glaber, crateriformis, minute 5-dentatus. *Corollæ lobi* 2 lin. longi, *tubo* prope basin piloso æquilongi. *Antheræ* parum exsertæ. *Stylus* conicus. *Stigma* obconicum, utrinque truncatum, indivisum. *Baccæ* pisi magnitudine.

28. TIMONIUS, Rumph., DC.

Nelitris, Gærtner. *Eupyrena*, W. et A.

1. **T. Iambosella,** Thw.—*Nelitris Iambosella,* Gærtn. De Fruct. i. p. 134. t. 27 (excl. syn.). *Eupyrena glabra,* W. et A., l. c. p. 422.—C.P. 157 (664).

HAB. Very common in the southern and central parts of the island, up to an elevation of 5000 feet.

Arbor parva, 8–10-pedalis. *Folia* subtus ad costam glanduloso-porosa. *Inflorescentia* axillaris, polygamo-dioica. *Corolla* ochracea, *lobis* comosis, interne longitudinaliter 4–6-sulcatis, subimbricatis. FLOR. FŒM. Solitarii, cum apice pedunculi plus minus elongati articulati, bibracteolati. *Ovarium* sæpissime 12-loculare. *Stylus* simplex. *Stigmata* 12, in fasciculis 4 coalita. *Pedunculi masc.* bifurci, pauciflori. *Flores* laxe spicati, subsecundi. *Antheræ* lineari-oblongæ, subsessiles, inclusæ. *Stylus* apice minute bifidus.

Sect. 2. *Corollæ segmentis contorto-imbricatis.*

† *Ovarii loculis* 1-*ovulatis.*

29. GUETTARDA, Linn.

1. **G. speciosa,** Linn. (W. et A., l. c. 422, cum syn.; Wight, Icon. t. 40.)—C.P. 2990.

HAB. Caltura, *Moon.* Near Galle. Nom. vulg. "Nil-pitcha."

Digitized by Google

30. COFFEA, Linn.

1. **C. Travancorensis,** Herb. Mad.; W. et A., l. c. p. 435.—*C. triflora*, Moon's Cat. p. 15 (non Forst.)—C.P. 2458.—An *C. Benghalensis*, Roxb. var.?

HAB. Warm, moister parts of the island, up to an elevation of 3000 feet. Nom. vulg. "Gas-pitcha."

Frutex 4–8-pedalis. *Ramuli* adscendentes, pilis brevibus scabri. *Folia* 1–4 poll. longa, ½–2 poll. lata, *petiolo* circiter 1 lin. longo. *Baccæ* sphæricæ vel parum oblatæ, nigræ, 4–5 lin. in diam. (siccæ) subdidymæ. *Semina* hemisphærica, ad hilum excavata.

2. **C. Wightiana,** Wall. (W. et A., l. c. p. 436; Wight, Icon. t. 1598.)—C.P. 1654.

HAB. Hot, drier parts of the island.

Differing from the last principally in its more horizontal ramification and smaller leaves, but, as remarked by Wight and Arnott, the two are probably forms of one species.

3. **C.? elliptica,** Thw.; dioica, glaberrima; *foliis* subcoriaceis, integris, ellipticis vel oblongis, acuminatis, basi angustatis, petiolatis; *stipulis* majusculis, oblongis, acutis, convolutis; *pedunculis* terminalibus, ternis; *pedicellis* subæquilongis, ternis, folio multum brevioribus; *bracteolis* paucis, parvis, squamæformibus, versus basin pedicellorum sparsis; *calyce* integro vel minutissime denticulato; *corollæ tubo* intus ad apicem piloso, *lobis* oblongis obtusis duplo longiore. MASC. *Antheris* sessilibus, linearibus, apiculatis, inclusis, medio affixis; *stylo* tubo breviore, subclavato; *stigmatis* lobis angustis, cohærentibus; *ovarii* rudimento subnullo.—C.P. 3482.

HAB. Hinidoon Corle, at no great elevation.

Arbor parva 10–12-pedalis, (sicca) nigrescens. *Folia* 4–10 poll. longa, 2–3 poll. lata, *petiolo* ½–1½ poll. longo. *Calycis tubus* 1 lin. longus. *Corolla* alba, *tubo* 12 lin. longo, *lobis* oblongis, obtusis, 8 lin. longis. *Fl. fœm.* ignoti.

This species is placed provisionally only with *Coffea*, with which it agrees in many respects, until the structure of the female flower is known: it will then probably be found to be generically quite distinct.

C. Arabica, L., so extensively cultivated in the island, springs up in the forests from seeds carried by birds, monkeys, etc., but cannot be considered indigenous.

31. PRISMATOMERIS, Thw.

Hook. Kew Journ. Bot. viii. p. 268.

Calyx cupuliformis, subinteger. *Corollæ* segmenta carnosa, prismatica, basi excavata. *Filamenta* brevia. *Antheræ* inclusæ, apicibus exsertis.

1. **P. albidiflora,** Thw. l. c. t. 7 A.—C.P. 728.

HAB. Not very uncommon in the southern and central parts of the island, up to an elevation of 4000 feet.

This plant would appear, at first sight, to offer an exception to the character of the section in which it is placed, but the convolute æstivation of the corolla is of necessity modified owing to the peculiar form and fleshy structure.

32. IXORA, Linn.

1. **I. coccinea,** Linn. (W. et A., l. c. p. 427; Wight, Icon. t. 153.)—C.P. 190.

Digitized by Google

HAB. Common in the warmer parts of the island, up to an elevation of 2000 feet. Nom. vulg. "Ratambala."

2. **I. calycina,** Thw.; glabra; *foliis* ovatis vel lanceolatis, acuminatis, basi cordatis rotundatis vel acutis, brevi-petiolatis; *venis primariis* subhorizontalibus; *corymbis* terminalibus, trichotomis; *pedicellis* brevibus, confertis; *bracteolis* longiusculis, linearibus; *segmentis calycinis* integris, lanceolatis, acutis, ovario 3–5-plo longioribus; *corollæ lobis* oblongo-rotundatis, acutis, *tubo* cylindrico multum brevioribus; *baccis* ovoideis vel sphæricis, calyce coronatis.—C.P. 448.

HAB. Central Province, up to an elevation of 7000 feet.

Arbor parva. *Folia* 1½–4 poll. longa, ½–2 poll. lata, *petiolo* 1–2 lin. longo. *Corolla* alba, rubro-tincta.

Allied apparently to *I. polyantha*, Wight, Icon. t. 1066, but distinguished by its much smaller leaves and flowers, and its glabrous corymbs.

3. **I. jucunda,** Thw.; *foliis* glabris, lanceolatis vel ovato-lanceolatis, acuminatis, basi angustatis, petiolatis; *corymbis* terminalibus, pilosulis, multifloris, basi trichotomis; *divisionibus primariis* elongatis; *bracteolis* parvis, acutis; *segmentis calycinis* truncatulis, ovario brevioribus.—C.P. 702 (1715, 2455, 2573).

Var. β; *foliis* anguste lanceolatis; *segmentis calycinis* subacutis, quam *corollæ* lobi angustioribus.—C.P. 3424.

Var. γ; *tubo corollæ* multo breviore.—C.P. 2 (406, 739).—An species distincta?

HAB. Not uncommon up to an elevation of 4000 feet.

Arbor parva, 10–20-pedalis. *Folia* 4–8 poll. longa, 1–4 poll. lata, *petiolo* 2–5 lin. longo. *Corymbi* sæpe coccinei. *Corolla* alba, rubro-tincta, *lobis* circiter 2 lin. longis, oblongis, acutiusculis; *tubo*, var. α and β, 7–14 lin. longo; var. γ, 2–3 lin. longo. *Baccæ* subsphæricæ, atro-rubræ.

The short tube of the corolla in var. γ gives it an appearance very different from that of the other varieties, and further investigation may prove it to be specifically distinct; but I can at present discover no other character of importance sufficient to justify its separation as a species, and especially, too, as a similar variation is observable in *Pavetta Indica*, L.

4. **I. parviflora,** Vahl, (W. et A., l. c. p. 429, cum syn.; Wight, Icon. t. 711.)—C.P. 2575.

HAB. Hot drier parts of the island, up to no great elevation.

5. **I. acuminata,** Roxb. Fl. Ind. i. p. 383; Roxb. et Wall. Fl. Ind. p. 393; Wight, Icon. t. 706.—C.P. 748.

Var. β; *ramulis foliis*que utrinque velutinis.

HAB. Not very uncommon up to an elevation of 3000 feet. Var. β. Hot drier parts of the island.

In my specimens the stipules are rounded and cuspidate, and the throat of the corolla is not hairy, but I cannot doubt their being specifically identical with Roxburgh's plant.

33. PAVETTA, Linn.

§ *Floribus corymbosis.*

1. **P. Indica,** Linn. (W. et A., l. c. p. 431, cum syn.; Wight, Icon. t. 148.)—C.P. 1663 and 2456.

Digitized by Google

Var. β; *corymbis* delicatulis, paucifloris; *pedicellis* elongatulis; *foliis* anguste lanceolatis, membranaceis.—C.P. 2611.

Var. γ; *calyce* parum majore; *tubo corollæ* breviore quam in varr. α et β.—C.P. 2512.—An *Ixora breviflora*, Roxb.?

Var. δ; *foliis* subtus *corymbis*que puberulis.—C.P. 3616.

Hab. Var. α. Very abundant up to an elevation of 3000 feet. Var. β. Ambagamowa District. Var. γ. Common at an elevation of 3000 to 4000 feet. Var. δ. Batticaloa. Nom. vulg. "Pawetta."

Calyx dentibus 4, acutiusculis, tubo 3-plo brevioribus, marginatus vel minute 4-denticulatus. *Corolla* externe glabra, *tubo* interne piloso.

2. **P. tomentosa,** Sm. (W. et A., l. c. cum syn.)—*Ixora tomentosa*, Roxb. Wight, Icon. t. 186.—C.P. 2815.

Hab. Abundant in the Batticaloa District.

Dentes calycini lanceolati, tubo longiores. *Corollæ lobi* externe parce pilosi.

This agrees so well in nearly every respect with Roxburgh's description and drawing, as copied in Wight's 'Icones,' that I cannot venture to separate them. The only difference of any importance appears to be the greater length of the calyx-lobes in the present plant.

3. **P. hispidula,** W. et A., l. c.—C.P. 742 (759, 771).

Hab. Central Province, at an elevation of 3000 to 5000 feet.

Frutex 2–4-pedalis. *Ramuli* teretes, tomentosi vel subglabri. *Folia* lanceolata vel obovato-lanceolata, acuminata, basi cuneata, membranacea, superne hispidula vel glabra, subtus tomentosa vel subglabra, 2½–8 poll. longa, 1–3 poll. lata, *petiolo* 2–6 lin. longo. *Dentes calycini* parvi acutique vel *tubo* subæquilongi, obtusiusculi, vel rarius foliaceo-dilatati. *Corolla* albida. *Baccæ* nigræ, nitidæ, subsphæricæ, semipollicares.

A variable species, distinguished from the preceding by its yellowish, rather large flowers, and its very long style, gradually attenuated from above the middle, and from the following by the very different shape of the leaves.

4. **P. angustifolia,** Thw.; *foliis* glabris (junioribus subtus ad nervos pilosulis), lineari-lanceolatis, utrinque acuminatis, petiolatis; *stipulis* membranaceis, apiculatis, externe hispidulis, interne glabris; *corymbis* brevibus, basi trichotomis, pilosulis; *pedicellis* longiusculis; *dentibus calycinis* acutis, apice recurvis; *tubo* brevioribus; *corollæ lobis* linearibus, acutis; *stylo* elongato, versus apicem attenuato.—C.P. 267.

Hab. Banks of streams, in the Central Province; not uncommon.

Frutex parvus. *Folia* 3–7 poll. longa, ½–1 poll. lata, *petiolo* 1–5 lin. longo. *Corolla* albida, *tubo* 7–10 lin. longo, interne piloso, *lobis* 5 lin. longis. *Baccæ* pisi magnitudine.

§§ *Floribus glomeratis.*

5. **P. involucrata,** Thw.; *foliis* glabris, obovatis vel obovato-lanceolatis, brevi-acuminatis, basi angustatis, rotundatis vel acutis, petiolatis; *capitulis* solitariis, axillaribus, arcte involucratis, pedunculatis.—C.P. 428 (458, 1717).

Hab. Central Province, at an elevation of 5000 to 7000 feet.

Frutex 10–12-pedalis, (siccus) nigrescens. *Folia* 2½–5 poll. longa, 1–2 poll. lata, *petiolo* ¼–½ poll. longo. *Pedunculi* folio multum breviores. *Involucra* foliosa, *squamis* membranaceis, interne pilosis. *Calycis lobi* lineares, interne pilosi, tubo subæquilongi. *Corolla* albida, *lobis* acutis, tubum æquantibus. *Stylus* corolla duplo longior, apice pilosulus. *Baccæ* sphæricæ, nigræ, pisi magnitudine.

Digitized by Google

†† *Ovarii loculis 2-pluriovulatis.*

34. EPITHINIA, Jack.

1. **E. Malayana,** Jack, (W. et A., l. c. p. 424, cum syn.)—C.P. 1665.
HAB. Jaffna, *Gardner.*

As far as I can make out from dried specimens, the two ovules in each loculus appear to be attached to a central placenta, and one of them to be erect and the other pendulous.

35. HYPTIANTHERA, W. et A.

1. **H. macrocarpa,** Thw.; *foliis* glabris, oblongis, brevi-acuminatis, basi parum angustatis, petiolatis; *fasciculis* axillaribus vel paulo supra-axillaribus, paucifloris; *pedicellis* petiolo brevioribus; *calycis lobis* brevissimis, rotundatis, apiculatis; *baccis* oblongis, subsphæricis, paucispermis, 1-locularibus; *seminibus* plus minus compressis; *albumine* ruminato.—C.P. 2709.

HAB. Ambagamowa District, and between Galle and Ratnapoora, at no great elevation.

Frutex 8–10-pedalis. *Folia* 5–8 poll. longa, 1½–2½ poll. lata, *petiolo* circiter ¼ poll. longo. *Corollæ tubus* cylindricus, 2 lin. longus, interne pilosus; *lobi* 5, breviores, rotundati, secus medium pilosi. *Antheræ* lineares. *Baccæ* subpollicares.

This species agrees in most of its characters with *Hyptianthera* of Wight and Arnott, but those authors make no mention of the seeds of their plant being ruminate.

36. SCYPHOSTACHYS, Thw.

Calyx brevis, tubulosus, 4-dentatus. *Corollæ tubus* brevis, *limbus* 4-lobus. *Antheræ* 4, oblongæ, subinclusæ. *Filamenta* brevia, fauce inserta. *Stylus* brevis. *Stigmata* 2, divergentia. *Ovarium* 2-loculare; *loculis* circiter 4-ovulatis.—Frutices; foliis *lanceolatis;* stipulis *acuminatis, connatis*; pedunculis *axillaribus vel supra-axillaribus, ad apicem bracteolatis, paucifloris;* bracteolis *majusculis, connatis, vaginantibus;* floribus *sessilibus, parvis.* Fructus *baccatus.*

1. **S. pedunculatus,** Thw.; *ramulis* scabridis; *foliis* glabris vel subtus ad nervos pilosulis; *stipulis bracteolis*que striatis, cuspidatis, interne longe pilosis; *corolla* externe pilosa; *baccis* ovoideis.—C.P. 3423.

HAB. Pasdoon Corle, at no great elevation.

Folia 3–6 poll. longa, ¾–2¼ lata, *petiolo* 2 lin. longo. *Pedunculi* 2–5 lin. longi, sæpissime deflexi. *Bracteolæ* sæpe 5–8, tanquam spicam formantes. *Baccæ* 7 lin. longæ, atro-purpureæ, sæpissime 1-spermæ. *Semina* lineari-oblonga, circiter 4 lin. longæ.

2. **S. coffeoides,** Thw.; *foliis* glabris, subcoriaceis; *pedunculis* brevibus vel subnullis; *bracteolis stipulis*que muticis, subscariosis, interne glabris; *corolla* externe glabra.—C.P. 2710.

HAB. Ratnapoora District, abundant, up to no great elevation. Nom. vulg. "Wal-copee."

Folia 2½–5 poll. longa, ¾–1¾ lata, *petiolo* 1–2 lin. longo. *Baccæ* rubræ. *Semina* oblonga, striata, circiter 2 lin. longa.

Digitized by Google

37. DISCOSPERMUM, Dalzell, Walpers.

Diplospora, DC. (nomen prioritatem habens, sed quoad plantarum structuram decipiens).

1. **D. Dalzellii,** Thw.; *floribus* polygamo-dioicis. Fœm. *Ovarii loculis* 6–7-ovulatis.—An *D. sphærocarpum*, Dalz. in Hook. Kew Journ. of Bot. ii. p. 257?—C.P. 561 (753, 767).

Hab. Central Province, at an elevation of 1000 to 3000 feet.

Folia 2–4 poll. longa, ¾–1¾ lata, *petiolo* 3 lin. longo. *Flores* albidi, sessiles vel subsessiles. Fœm. *Corollæ tubus* brevior quam in flor. masc. *Ovula* prope marginem inferiorem placentæ subhemisphæricæ inserta. *Baccæ* sphæricæ, carnosæ, virides, pollicares.

The ovules of this plant are more numerous than described by Dalzell in his *D. sphærocarpum*, and that author does not notice the dioicous inflorescence, but I suspect the two plants may prove identical.*

2. **D. erythrosporum,** Thw.; *floribus* polygamo-dioicis; *calyce* minute 4-dentato; *staminibus* longiusculis. Flor. Fœm. *Ovarii loculis* 3–4-ovulatis; *baccis* parvis, ovoideis vel subsphæricis; *seminibus* oblongis; *testa* rubro-glandulosa.—C.P. 2510, 3481.

Hab. Ambagamowa District, at an elevation of 3000 feet.

Folia 2–5 poll. longa, 1–2½ poll. lata, *petiolo* 1½–3 lin. longo. *Flores* flavidi. *Baccæ* circiter 4 lin. in diam. *Semina* 3 lin. longa.

38. STYLOCORYNE, Cav.

1. **S. Webera,** A. Rich. (W. et A., l. c. p. 401, cum syn.; Wight, Icon. tt. 309, 584.)—C.P. 185.

Var. β. *montana; gemmis alabastris*que gummiferis; *floribus* majoribus.—*Webera cerifera,* Moon, Cat. p. 19.—C.P. 1649.

Hab. Very abundant throughout the island. Var. β in more elevated localities than var. α. Nom. vulg. "Tarrana-gass."

39. GRIFFITHIA, W. et A.

1. **G. fragrans,** W. et A., l. c. p. 400, cum syn.; Wight, Icon. t. 310. —C.P. 1234 (1651, 2522).

Hab. Not uncommon up to an elevation of 3000 feet.

Ovarii loculi circiter 8-ovulati, *ovulis* secus marginem placentæ oblongæ supra medium affixæ immersis.

2. **G. Gardneri,** Thw.; inermis; *foliis* glabris, nitidis, lanceolatis, acuminatis, basi angustatis, petiolatis; *corymbis* axillaribus, folio brevioribus, brevi-pedunculatis, parce pilosis, denique glabris; *pedicellis* elongatulis; *bracteolis* parvis; *calyce* minute 5-dentato, externe pilosulo; *corolla* externe subglabra, interne ad faucem pilosa; *lobis* lineari-

---

* I cannot find any difference of importance. The calyx-limb differs much in the several species of this genus, and requires the generic character to be emended. It is 4-lobed in *D. sphærocarpum* and *Dalzellii;* urceolate and entire in *D. apiocarpum;* subcampanulate and minutely 4-toothed in *D. erythrosporum.*—J. D. H.

Digitized by Google

lanceolatis; *tubo* duplo longioribus.—*Stylocoryne Ceylanica*, Gardn., MSS.—C.P. 657 (746).

HAB. Central Province, at an elevation of 2000 to 4000 feet.

Arbor parva, elegans, 15–20-pedalis. *Ramuli* teretes, parum compressi. *Folia* 2–4½ poll. longa, ¾–1½ poll. lata, *petiolo* 2–3 lin. longo. *Flores* flavidi, *lobis* 4 lin. longis. *Placentæ* 8–12-ovulatæ. *Baccæ* subsphæricæ, 4–5 lin. in diam.

3. **G. rugulosa,** Thw.; *foliis* rugulosis, ovatis vel ovato-lanceolatis, brevi-acuminatis, subtus ad nervos pilosis, denique glabris, petiolatis; *corymbis* adpresse pilosis, folio oppositis, ad axillam folii abortivi parvi spinæformis solitariis; *dentibus calycinis* brevibus, subulatis.—C.P. 245.

HAB. Ambagamowa, Saffragam, and Galle Districts; not common.

Frutex; ramulis striatulis, cincreis, *junioribus* pilosulis. *Folia* 2–5 poll. longa, 1–3 poll. lata, *petiolo* 2–3 lin. longo. *Stipulæ* rotundatæ, cuspidatæ, interne ad basin glandulosæ. *Baccæ* globosæ, pisi magnitudine.

40. RANDIA, Houst.

1. **R. dumetorum,** Lam. (W. et A., l. c. p. 397, cum syn.; Wight, Icon. t. 580.)—*R. longispina*, DC., W. et A., l. c. p. 398; Wight, Icon. t. 582.—C.P. 1652.

HAB. Very abundant in the hotter parts of the island.

2. **R. uliginosa,** DC. (W. et A., l. c.; Wight, Icon. t. 397.)—C.P. 2936.

HAB. Trincomalee, *W. Morris, Esq.*

The unripe fruit of this plant, Mr. Morris informs me, is employed as a vegetable by the Cinghalese.

41. GARDENIA, Ellis.

1. **G. carinata,** Wall. in Roxb. Fl. Ind. ii. p. 560; DC. Prod. iv. p. 380.—An *G. costatæ*, Roxb. var.?—C.P. 3618 (1655 *partim*).

HAB. Batticaloa District, *Gardner*.

In the herbarium I have specimens with no locality indicated, and Mr. W. Ferguson has sent me from Colombo the leaves of another species of *Gardenia* ("Gallis-gass" of the Cinghalese), which seems to resemble in many respects *G. latifolia*, Ait., but Mr. F. is under the impression that the fruit is costate, so the matter must remain in doubt until flowers and fruit can be obtained for examination.

42. WENDLANDIA, Bartl.

1. **W. Notoniana,** Wall. (W. et A., l. c. p. 403, cum syn.) — *W. bicuspidata*, W. et A. l. c.—C.P. 315.

HAB. Central Province, up to an elevation of 7000 feet.

The stipules are very variable in form; sometimes deeply bifid, but more frequently merely retuse at the apex, with the sinus mucronate, and often quite entire.

LXXXII. VALERIANACEÆ.

1. VALERIANA, Neck.

1. **V. Hardwickii,** Wall. (Roxb. Fl. Ind. i. p. 166.)—DC. Prod. iv.

Digitized by Google

p. 640.—*V. elata*, Don, Prod. Fl. Nep. p. 159. *V. Hookeriana*, W. et A. Prod. i. p. 444. *V. Arnottiana*, Wight, Ic. tt. 1045, 1046.—C.P. 150 (1729).

HAB. Newera Ellia, abundant.

The amount of pubescence upon the leaves varies very much. In my specimens the achenia are not at all hairy between the ribs.

LXXXIII. DIPSACEÆ.

1. DIPSACUS, Tourn.

1. **D. Leschenaultii**, Coult.—DC. Prod. iv. p. 647.—*D. Walkeri*, Arn. Pug. p. 26 (334); Wight, Ic. t. 1166.—C.P. 2404 (1730).

HAB. Newera Ellia, at an elevation of 7000 feet.

LXXXIV. COMPOSITÆ.

1. VERNONIA, Schreb.

1. **V. Javanica**, DC. Prod. v. p. 22, cum syn.—C.P. 1742.

HAB. Not uncommon, at the margins of damp woods, up to an elevation of 5000 feet: very abundant in the Ambagamowa District.

2. **V. Wightiana**, Arn. Pug. p. 27 (345); DC. Prod. vii. p. 263.—C.P. (1741).

Var. β; *foliis* anguste lanceolatis, subtus parce tomentosis.—C.P. 164.—An species distincta?

HAB. Central Province, at an elevation of 5000 to 8000 feet. **Var. β.** In the Ambagamowa District.

The different form of the leaves, and their much smaller amount of pubescence, give a distinct appearance to var. β; but it resembles var. α so closely in the whole structure of the inflorescence that I cannot venture to separate them.

3. **V. Zeylanica**, Less. (DC. Prod. v. p. 26, cum syn.)—C.P. 1738.

HAB. Common, in the warmer parts of the island, up to an elevation of 3000 feet. Nom. vulg. "Poopoola."

4. **V. conyzoides**, DC. Prod. v. p. 25, cum syn.; Wight, Icon. t. 1076.—*V. Hookeriana*, Arn. Pug. p. 28 (346); DC. Prod. vii. p. 263.—C.P. 1737.

HAB. Central Province, at an elevation of 1000 to 4000 feet.

The outer series of the pappus in my specimens is very inconspicuous.

5. **V. cinerea**, Less. (DC. Prod. v. p. 24, cum syn.)—C.P. 1736.

HAB. Very abundant throughout the island. Nom. vulg. "Monera-koodimbeya."

6. **V. Neilgherryensis**, DC. l. c. p. 32; Wight, Icon. t. 1078.—*V. setigera*, Arn. Pug. p. 27 (345); DC. Prod. vii. p. 263.—C.P. 20 (169, 566).

HAB. Central Province, at an elevation of 6000 to 7000 feet.

7. **V. anthelmintica**, Willd. (DC. Prod. v. p. 61, cum syn.)—C.P. 487.

HAB. Galagama, *Gardner*. Common in native gardens, but I have never met with it truly wild.

Digitized by Google

8. **V. Gardneri,** Thw.; herbacea; *foliis* subsessilibus, lanceolatis vel anguste lanceolatis, acute serratis, subglabris, basi angustatis; *corymbo* oligocephalo; *capitulis* majusculis, multifloris, longe pedunculatis; *involucri squamis* lanceolatis, sæpe abrupte angustatis, squarrosis, *exterioribus* brevioribus angustioribusque; *acheniis* cylindraceis, pilosis, *pappo exteriore* brevissimo; *receptaculo* alveolo-fimbriato.—C.P. 27, 1745.

Var. β. *nervosa; foliis* firmis, ovatis vel rotundatis, acuminatis, venis subtus prominentibus, *invol. squamis* brevi-acuminatis.—C.P. 44.—An species distincta?

HAB. Central Province. Var. α. In shady places, up to an elevation of 5000 feet. Var. β. On exposed, wet, rocky slopes, between Horton Plains and Galagama.

Var. α of this species closely resembles *V. anthelmintica,* but the latter is distinguished by its smaller florets, obtuse involucre-scales, larger seeds, and naked receptacle. Var. β differs from var. α in the shape of the leaves, and their veins being much more prominent beneath; but in other respects it seems to agree with undoubted forms of this very variable species.

9. **V. nemoralis,** Thw.; herbacea, *caule* minute adpresse piloso, *foliis* lanceolatis, acuminatis, distanter serratis, subglabris, basi angustatis, *capitulis* 20–30-floris, longiuscule pedunculatis, *involucri squamis* parce floccosis, lineari-oblongis, apice plus minus rotundatis, mucronulatis, *interioribus* subelongatis, *achæniis* pilosis, *pappo exteriore* brevi, subpaleaceo, *receptaculo* alveolato-fimbriato.—C.P. 216.

HAB. Saffragam and contiguous districts, at no great elevation.

Closely allied to the preceding, from which it is principally distinguished by its fewer florets and the different shape of its involucre-scales.

10. **V. pectiniformis,** DC. Prod. v. p. 31; Wight, Ic. t. 1077.—*V. puncticulata,* DC. Prod. vii. p. 264.—C.P. 294 (567).

HAB. Central Province, to an elevation of 6000 to 7000 feet.

Achænia subglabra. *Pappus* plus minus rufescens, *serie* externa 3–4-plo breviore, decidua.

11. **V. scariosa,** Arn. Pug. p. 28 (346).—*Decaneurum? scariosum,* DC. Prod. vii. p. 264.—C.P. 389.

Var. β. *crassa;* elatior; *involucri squamis* villosis, latioribus, abrupte et longe subulato-acuminatis.—C.P. 2825.

HAB. Central Province, at an elevation of 4000 to 7000 feet. Var. β. In very damp shady places.

2. ELEPHANTOPUS, Cass.

1. **E. scaber,** Linn. (DC. Prod. v. p. 86; Wight, Icon. t. 1086).—C.P. 1772.

HAB. Very abundant in open places in the warmer parts of the island. Nom. vulg. "At-addeya."

3. AGERATUM, Linn.

1. **A. conyzoides,** Linn. (DC. Prod. v. p. 108, cum syn.)—C.P. 3633.

HAB. A most abundant weed throughout the island, from the sea-level to an elevation of 7000 feet.

Digitized by Google

4. ADENOSTEMMA, Forst.

1. **A. viscosum,** Forst. (DC. Prod. v. p. 111, cum syn.)—*A. latifolium,* Don; DC. l. c. p. 112; Wight, Ic. t. 1087. *A. erectum,* DC. l. c. p. 113. *A. reticulatum,* DC. l. c.; Wight, Icon. t. 1088. *A. angustifolium,* Arn. Pug. 29 (347); DC. Prod. vii. p. 266.—C.P. 594.
HAB. Very abundant throughout the island.

5. LAGENOPHORA, Cass.

1. **L. Harveyi,** Thw.; *foliis* spathulato-oblongis, sinuato-dentatis, plus minus hirsutis; *scapo* foliis 2–3-plo longiore; *involucri squamis* lineari-lanceolatis, subglabris; *achæniis* 3-serialibus, glabris, margine incrassato, rostro antice glanduloso; *receptaculo* conico.—C.P. 21 (513).
HAB. Central Province, at an elevation of 4000 to 6000 feet, not very uncommon.

The triserial arrangement of the achænia, pointed out to me by my friend Professor W. H. Harvey, when we were examining the plant together in the island, seems sufficient to separate this from the other described species of the genus.

6. MYRIACTIS, Less.

1. **M. Wightii,** DC. Prod. v. p. 308; Wight, Icon. t. 1091.—*M. Gmelini,* DC. l. c. p. 309.—An *M. Javanica* et *M. pilosa,* DC. l. c. p. 308?—C.P. 1740.
HAB. Very abundant in the Central Province, at an elevation of 5000 to 8000 feet.

7. AMPHIRHAPIS, DC.

1. **A. Zeylanica,** DC. Prod. vii. p. 279.—*Solidago Zeylanica,* Arn. Pug. 29 (347).—C.P. 152.
HAB. Abundant throughout the island.

8. SPHÆRANTHUS, Vaill.

(Nom. vulg. "Mooda-mahana.")

1. **S. microcephalus,** Willd. (DC. Prod. v. p. 369, cum syn.)—C.P. 1770.
HAB. Common in the warmer parts of the island.

2. **S. hirtus,** Willd. (DC. l. c. cum syn.; Wight, Icon. t. 1094.)—C.P. 1769.
HAB. Very abundant on the borders of paddy-fields.

3. **S. amaranthoides,** Burm. (DC. l. c. p. 370, cum syn.; Wight, Icon. t. 1149.)—C.P. 1768.
HAB. Not uncommon in the hotter parts of the island.

9. DICHROCEPHALA, DC.

1. **D. latifolia,** DC. Prod. v. p. 372, cum syn.; Wight, Icon. t. 1096.—C.P. 1766, 3303.
HAB. Very common in waste places.

Digitized by Google

10. GRANGEA, Adans.

1. **G. Maderaspatana,** Poir. (DC. Prod. v. p. 373, cum syn.; Wight, Icon. t. 1097.)—C.P. 1767.
HAB. Warmer parts of the island.

11. CONYZA, Less.

1. **C. Ægyptiaca,** DC. Prod. v. p. 382.—*C. semipinnatifida,* Wall.; DC. l. c. *Erigeron hispidum,* DC. l. c. p. 292, cum syn. *E. subliratum,* Roxb.; DC. l. c.—C.P. 1733.
HAB. North of the island, *Gardner.*

2. **C. viscidula,** Wall. (DC. l. c. p. 383.)—*C. Wallichii,* DC. l. c. p. 384, cum syn.—C.P. 1739.
HAB. Central Province, at an elevation of 1000 to 3000 feet.

12. BLUMEA, DC.

1. **B. amplectens,** DC. Prod. v. p. 433, cum syn.—C.P. 1730, 3523.
HAB. Hotter parts of the island.

2. **B. arenaria,** DC. l. c. cum syn.—C.P. 1732.
HAB. North of the island, *Gardner.*

3. **B. barbata,** DC. l. c. p. 434.—C.P. 1731.
HAB. Central Province, at an elevation of 3000 to 5000 feet.

4. **B. lacera,** DC. l. c. p. 436, cum syn.—*B. Wightiana,* DC. l. c. p. 435, cum syn.; Arn. Pug. 29 (347).—C.P. 1735.
HAB. Very abundant throughout the island, on the borders of paddy-fields, etc.

5. **B. hieraciifolia,** DC. l. c. p. 442; Wight, Icon. t. 1099.—C.P. 19, 403.
Var. β; *caulibus foliis*que subtus dense villosis.
HAB. Central Province, at an elevation of 4000 to 7000 feet.

Dr. Wight's figure, quoted above, would seem to represent a stunted form or a very early stage of growth of the present plant, which here usually occurs from 3 to 5 feet or even more in height.

6. **B. crinita,** Arn. Pug. 30 (348); DC. Prod. vii. p. 283.—C.P. 147.
HAB. Adam's Peak and Newera Ellia, *Gardner.*

Closely allied to and very much resembling the preceding species, but apparently quite distinct. I have not seen the plant in a fresh state, my specimens having been collected by Dr. Gardner.

7. **B. alata,** DC. Prod. v. p. 448, cum syn.; Wight, Icon. t. 1101.—C.P. 551 (683).
HAB. Grassy places, in the Central Province, at an elevation of 4000 to 6000 feet.

8. **B. glandulosa,** DC. l. c. p. 438.—C.P. 1734, 2822.
Var. β; subglabra, eglandulosa.—C.P. 560.
HAB. Common up to an elevation of 4000 feet. Var. β. In damp shady places.

9. **B. myriocephala,** DC. l. c. p. 445.—An *B. grandis,* DC. l. c. p. 447?—C.P. 1744 (2557).

Digitized by Google

HAB. Hantani, in the Central Province, at an elevation of 4000 feet.

Herbacea, 4–6-pedalis. *Folia* ad basin lobulis parvis paucis appendiculata. *Achænia* pubescentia.

10. **B. angustifolia,** Thw.; humilis; *foliis* glabris, integris, anguste lanceolatis, obtusiusculis, obscure et remote denticulatis, basi longe cuneatis; *corymbis* oligocephalis; *capitulis* plurifloris pedicellisque plus minus lanato-villosis; *involucri squamis* lineari-lanceolatis, apice fibrillatis, disco parum longioribus; *receptaculo* glabro; *achæniis* glabris.—C.P. 691.
HAB. Central Province, at an elevation of 1000 to 3000 feet.

Herbacea, suberecta, pedalis, basi procumbens, ramosa, radicans. *Folia* 1–3 poll. longa, 2–4 lin. lata. *Flosculi* flavidi. *Pappus* paucus, albus.

13. EPALTES, Cass.

1. **E. divaricata,** Cass. (DC. Prod. v. p. 461.)—*E. linearifolia,* DC. l. c. *E. pygmæa,* DC. l. c.—C.P. 234.
HAB. Very abundant in the warmer parts of the island. Nom. vulg. "Heen-moodoo-mahana."

14. VICOA, Cass.

1. **V. Indica,** DC. Prod. v. p. 474, cum syn.—C.P. 1757.
HAB. Abundant up to an elevation of 5000 feet.

15. ECLIPTA, Linn.

1. **E. erecta,** Linn. (DC. Prod. v. p. 490, cum syn.)—*E. prostrata,* Linn.; DC. l. c. cum syn. *E. parviflora,* Wall.; DC. l. c.—C.P. 1754.
HAB. Extremely abundant. Nom. vulg. "Keekerindi."

16. BLAINVILLEA, Cass.

1. **B. latifolia,** DC. Prod. v. p. 492, cum syn.—C.P. 1753.
HAB. Not uncommon in waste places.

17. SIEGESBECKIA, Linn.

1. **S. orientalis,** Linn. (DC. Prod. v. p. 495; Wight, Icon. t. 1103.) —C.P. 1752.
HAB. Common in waste places.

18. XANTHIUM, Tourn.

1. **X. strumarium,** Linn. (DC. Prod. v. p. 523, cum syn.)—*X. Indicum,* Roxb.; DC. l. c. cum syn.; Wight, Icon. t. 1104. *X. inæquilaterale,* DC. l. c. cum syn.—C.P. 1771.
HAB. Not uncommon in exposed sandy places.

19. MOONIA, Arn.

1. **M. heterophylla,** Arn. Pug. 31 (349); DC. Prod. vii. p. 289.
Var. *a*; *foliis* simplicibus.—C.P. 1758.

Digitized by Google

Var. β; *foliis* 3–5-sectis.—*M. Arnottiana,* Wight, Icon. t. 1105.—C.P. 34.

HAB. Both varieties very abundant at an elevation of 6000 to 8000 feet.

Herbacea. *Achænia* ad apicem obscure bicornuta vel mutica.

20. WEDELIA, Jacq.

1. **M. calendulacea,** Less. (DC. Prod. v. p. 539, cum syn.; Wight, Icon. t. 1107.)—C.P 1756.

HAB. Not uncommon in the hotter parts of the island, especially near the sea. Nom. vulg. "Ranwan-keekirindi."

21. WOLLASTONIA, DC.

1. **W. biflora,** DC. Prod. v. p. 546, cum syn.; Wight, Icon. t. 1108. —*W. asperrima,* DC. l. c. p. 547. *W. scabriuscula,* DC. l. c. cum syn. *W. glabrata,* DC. l. c. p. 548. *W. insularis,* DC. l. c.—C.P. 1760 (1759).

HAB. Common in the hotter parts of the island.

22. BIDENS, Linn.

1. **B. pilosa,** Linn. (DC. Prod. v. p. 597, cum syn.)—*B. Sundaica,* Bl.; DC. l. c. p. 598. *B. Wallichii,* DC. l. c. cum syn.—C.P. 3630.

HAB. A very common plant in cultivated ground. Nom. vulg. "Wal-teekola."

2. **B. decomposita,** Wall. (DC. l. c. p. 602, cum syn.?)—C.P. 3583.

HAB. Batticaloa District, not common.

Involucri squamæ lineares, ciliatæ. *Ligulæ* flavæ, breves. *Achænia* elongata, 3–4-gona, subglabra vel versus apicem hirsuta, 3–4-aristata.

The achænia of *B. decomposita* are described as biaristate, whilst in my plant they are 3–4-aristate; but in other respects there would seem to be but slight difference, if any.

23. SPILANTHES, Jacq.

1. **S. Acmella,** Linn. (DC. Prod. v. p. 623, cum syn.)—*S. Pseudo-Acmella,* Linn.; DC. l. c. p. 625, cum syn. *S. calva,* DC. l. c. cum syn. —C.P. 684.

HAB. Very common in the Central Province, up to an elevation of 6000 feet. Nom. vulg. "Ac-malla."

24. ARTEMISIA, Linn.

1. **A. vulgaris,** Linn. (DC. Prod. vi. p. 112, cum syn.)—*A. Indica,* Willd.; DC. l. c. p. 114, cum syn.; Wight, Icon. t. 1111. *A. leptostachya,* DC. l. c. p. 113. *A. pauciflora,* Stechm.; DC. l. c. p. 102. *A. dubia,* Wall.; DC. l. c. p. 110. *A. Royleana,* Edgw.—C.P. 1755.

HAB. Not uncommon in or near native gardens. Nom. vulg. "Wal-kolondoo."

25. MYRIOGYNE, Less.

1. **M. minuta,** Less. (DC. Prod. vi. p. 139, cum syn.)—C.P. 2715.

Digitized by Google

HAB. Central Province, not uncommon.

26. GNAPHALIUM, Linn.

1. **G. Indicum,** Linn. (DC. Prod. vi. p. 231; DC. l. c. p. 274.)—C.P. 1762, 1764.

HAB. Very common in the Central Province, up to an elevation of 7000 feet.

Caulis simplex vel ramosus. *Capitula* in glomerulos paucos vel plurimos secus corymbi divisiones sparsos aggregata. *Involucri squamæ* albidæ vel plus minus roseo-tinctæ.

2. **G. marcescens,** Wight, Icon. t. 1115.—C.P. 1765, 3522.

HAB. Central Province, at an elevation of 7000 to 8000 feet.

Folia superne glabra vel araneo-lanosa. *Achænia* (in meis specim.) glabra.

3. **G. Hookerianum.**—*Helichrysum Hookerianum,* W. et A.; DC. l. c. p. 201.—An *H. buddleioides,* DC. l. c. var.?—C.P. 681.

HAB. Central Province, at an elevation of 6000 to 8000 feet.

Suffruticosum. *Receptaculum* luteo-glandulosum.

4. **G. Wightianum,** Wall. Cat. 2940.—*Anaphalis Wightiana,* DC. l. c. p. 273; Wight, Icon. t. 1117.—C.P. 528, 132, 568, 1763.

HAB. Central Province, at an elevation of 6000 to 8000 feet.

Suffruticosum. *Folia* lineari-oblonga, sæpe spathulata, late sessilia, superne subglabra vel plus minus lanuginosa, subtus dense cano-lanuginosa vel rarius subglabra.

Dr. Wight's figure, quoted above, so well represents a common form of this variable species, except that the capitula are somewhat larger in my specimens than shown in that figure, that there can be little doubt, I think, of the two plants being identical.

5. **G. brevifolium.**—*Anaphalis brevifolia,* DC. l. c. p. 273.—An *A. Neilgherriana,* DC. l. c. p. 272, et Wight, Icon. t. 478?—C.P. 1761.

HAB. Horton Plains and other of the most elevated parts of the Central Province.

27. GYNURA, Cass.

1. **G. lycopersicifolia,** DC. Prod. vi. p. 300, cum syn.—C.P. 420, 2826 (1750).

HAB. Very abundant up to an elevation of 5000 feet. Nom. vulg. "Kadoo-pāra."

2. **G. Nepalensis,** DC. l. c. cum syn.—C.P. 3539.

HAB. Galagama, at an elevation of 3000 feet.

3. **G. hispida,** Thw.; herbacea, subcarnosa, pilis flavis hispida; *caule* simplice vel parce ramoso, basi folioso; *foliis* obovato-lanceolatis, plus minus sinuato-dentatis, inferioribus in petiolum angustatis; *achæniis* glabris.—C.P. 3507.

HAB. On damp rocks, in the Central Province, at an elevation of 5000 to 7000 feet.

1–3-pedalis. *Folia* 2–6 poll. longa, ¾–½ poll. lata. *Capitula* 3–6, longe pedicellata, pluriflora, parce villosa. *Involucrum flosculis* flavo-aurantiacis parum brevius, *bracteolis* numerosis lineari-lanceolatis vix duplo longius.

Apparently very closely allied to *G. aurantiaca,* DC. (*Cacalia aurantiaca,* Blume).

Digitized by Google

28. EMILIA, Cass.

1. **E. sonchifolia,** DC. Prod. vi. p. 302, cum syn.—C.P. 3343.
HAB. Very abundant. Nom. vulg. "Kadoo-pāra."

An extremely variable plant as regards the shape of the leaves.

2. **E. prenanthoidea,** DC. l. c. p. 303, cum syn.—*E. angustifolia,* DC. l. c. cum syn.—An *E. scabra,* DC. l. c.?—C.P. 430 (444, 581, 670).
HAB. Central Province, at an elevation of 6000 to 8000 feet.

Folia caulina cordato-sagittata, anguste lanceolata, vel rarius oblonga subliratаque, glabra vel (præcipue subtus) puberula. *Flosculi* purpurei.

29. DORONICUM, Linn.

1. **D. Walkeri,** Arn. Pug. 32 (350); DC. Prod. vi. p. 322.—C.P. 151 (688).
HAB. Central Province, at an elevation of 5000 to 7000 feet.

½–3-pedale, plus minus pilosum. *Folia* oblonga, sessilia vel in petiolum longum basi sæpius appendiculatum angustata, dentata vel pinnatipartita, 1–6 poll. longa, ½–2 poll. lata.
A most variable plant, the extreme forms of which, in the absence of the intermediate ones, it would be difficult to believe specifically identical.

2. **D. Gardneri,** Thw.; glabrum; *caule* adscendente, folioso; *foliis* lineari-lanceolatis, distanter grosse serratis, basi angustatis; *ligulis* 4-nerviis; *achæniis* pilosulis.—C.P. 435 (459).
HAB. Ambagamowa District, at an elevation of 3000 to 5000 feet.

½–2-pedale. *Folia* 1–3½ poll. longa, 2–4 lin. lata, subtus pallidiora. *Achænia* albida.
In the characters of the inflorescence, this very closely resembles the preceding species, but the very narrow smooth leaves seem sufficient to keep it distinct.

30. SENECIO, Less.

1. **S. corymbosus,** Wall. (DC. Prod. vi. p. 364; Wight, Icon. t. 1130.)—C.P. 565.
Var. β.—*S. Walkeri,* Arn.; DC. l. c.; Wight, Icon. t. 1131.—C.P. 272.
HAB. Central Province, not uncommon. Var. *a.* At an elevation of 7000 to 8000 feet.

An examination of numerous specimens has proved to me that the characters which have been employed to separate varr. *a* and *β* as distinct species, are by no means constant, so that I have no hesitation in uniting them.

2. **S. Walkeri,** Thw. (non Arn.; vide sp. prec. var. β.)—*Gynura Walkeri,* Wight, Icon. t. 1122.—C.P. 533.
HAB. Central Province, at an elevation of 7000 to 8000 feet.

This appears to be a true species of *Senecio:* it has not the styles of *Gynura.* The flowers are of a pale-yellow colour.

3. **S. Zeylanicus,** DC. l. c. p. 365.—*S. gracilis,* Arn. Pug. 31 (349).—An *S. Neilgherrianus,* DC. l. c. p. 368, var.?—C.P. 1749.
HAB. Amongst high grass, at Newera Ellia and other of the most elevated parts of the island.

4. **S. Wightianus,** DC. l. c. p. 370, cum syn.; Wight, Icon. t. 1136.—C.P. 1751.

Digitized by Google

HAB. Common in the Maturatte and other districts of the Central Province.

Folia (in meis specim.) sæpissime ad basin pinnatim 2–4-lobata.

31. NOTONIA, DC.

1. **N. grandiflora,** DC. Prod. vi. p. 442, cum syn.—*N. corymbosa,* DC. l. c.; Wight, Icon. t. 484.—C.P. 1743.
HAB. Batticaloa District.

32. BRACHYRAMPHUS, DC.

1. **B. sonchifolius,** DC. Prod. vii. p. 177, cum syn.—*B. Heyneanus,* Wight, Icon. t. 1146. *Lactuca Heyneana,* DC. l. c. p. 140, cum syn.—C.P. 2827.
HAB. Galle, *Gardner*.

33. MICRORHYNCHUS, Less.

1. **M. sarmentosus,** DC. Prod. vii. p. 181, cum syn.; Wight, Illust. t. 133.—C.P. 1746.
HAB. Common near the seashore.

34. SONCHUS, Linn.

1. **S. oleraceus,** Linn.—C.P. 3631.
HAB. A very common weed in the Central Province, in newly-cleared ground.

35. YOUNGIA, Cass.

1. **Y. lyrata,** Cass. Opusc. iii. p. 86.—*Y. Mauritiana, Y. Thunbergiana, Y. runcinata, Y. napifolia, Y. Poosia, Y. striata,* et *Y. ambigua,* DC. Prod. vii. pp. 192, 193, cum syn. *Y. napifolia,* Wight, Icon. t. 1147.—C.P. 1747.
HAB. Very common in the Central Province, etc., up to an elevation of 5000 feet.

2. **Y. fuscipappa,** Thw.; glabra; *caulibus* sæpe e collo plurimis, erectis, parce foliosis; *foliis radicalibus* lineari-lanceolatis, acutis, runcinatis, in petiolum longum angustatis; *caulinis* summis linearibus; *corymbis* apertis.—C.P. 1748.
HAB. Central Province, at an elevation of 5000 feet.

1–2-pedalis. *Folia* 4–8 poll. longa, ½–¾ poll. lata. *Involucra* 3 lin. longa, minute bracteolata. *Achænia* fusiformia, parce compressa, puberula, striata. *Pappus* pallide fuscus.

LXXXV. STYLIDIEÆ.

1. STYLIDIUM, Sw.

1. **S. uliginosum,** Sw. (DC. Prod. vii. p. 336.)—C.P. 2505.
HAB. South of the island.

Digitized by Google

LXXXVI. GOODENOVIEÆ.

1. SCÆVOLA, Linn.

(Nom. vulg. "Taccāda.")

1. **S. Kœnigii,** Vahl, (DC. Prod. vii. p. 505, cum syn.; Hook. fil. et T. Præcurs. ad Fl. Ind. in Linn. Soc. Journ. (Bot.) ii. p. 8, cum syn. seq.)—*S. Bela-Modagam,* R. & S.; DC. l. c. *S. Taccada,* Roxb. DC. l. c.; Wight, Illust. t. 137. *S. sericea,* Forst.; DC. l. c. 506. *S. Lambertiana,* De Vriese; Walp. Ann. ii. p. 1056. *S. chlorantha,* De Vriese; Walp. l. c.—C.P. 3632.
HAB. Very abundant between Colombo and Galle, and other parts of the coast.

2. **S. Plumieri,** Vahl, (DC. l. c. p. 506, cum syn.; Hook. fil. et T. l. c. cum syn. seq.)—*S. Thunbergii,* Eck. et Zeyh.; DC. l. c. *S. Senegalensis,* Presl; DC. l. c. *S. uvifera,* Stocks; Wight, Ic. t. 1613. *S. Macraei,* De Vriese (fide Auct.); Walp. l. c.—C.P. 1777.
HAB. Near Colombo, and other parts of the coast.

LXXXVII. CAMPANULACEÆ.

TRIBE I. *CAMPANULEÆ.*

1. WAHLENBERGIA, Schr.

1. **W. agrestis,** A. (DC. Prod. vii. p. 434; Wight, Icon. t. 1175; Hook. fil. et T. Linn. Soc. Journ. (Bot.) ii. p. 21, cum syn. seq.)—*W. dehiscens,* A. DC. l. c. *W. Indica,* A. DC. l. c.; Wight, Icon. t. 1176. —C.P. 1774.
HAB. Very abundant in grassy places in the Central Province, at an elevation of 4000 to 7000 feet.

2. CAMPANULA, Linn.

1. **C. fulgens,** Wall. in Roxb. Fl. Ind. ii. p. 99; DC. Prod. vii. p. 477; Wight, Icon. t. 1179; Illust. t. 136.—C.P. 1775.
HAB. Central Province, at an elevation of 5000 to 7000 feet, but not common.

TRIBE II. *LOBELIEÆ.*

3. LOBELIA, Linn.

1. **L. trigona,** Roxb. (DC. Prod. vii. p. 359; Wight, Icon. t. 1170.) —An *L. affinis,* Wall.; DC. l. c. p. 360? An *L. trialata,* Ham.; DC. l. c.?—C.P. 1776, 2981.
HAB. Abundant throughout the island.

A most variable plant, and I have been unable to find sufficiently constant characters in any of its forms to justify my separating them as distinct species; nor have I ever met with specimens in which the stem, when in a fresh state, was not more or less triangular.

Digitized by Google

2. **L. excelsa,** Lesch. (DC. l. c. p. 381, cum syn.; Wight, Icon. tt. 1173, 1174.)—*L. nicotianæfolia,* Heyne; DC. l. c. cum syn.; Wight, Illust. t. 135. *L. aromatica,* Moon's Cat.; Wight, Icon. t. 1172.—C.P. 2592 (529, 531, 548).

Hab. Central Province, at an elevation of 4000 to 7000 feet; abundant at Newera Ellia and Maturatte. Nom. vulg. "Ras-nee."

The forms of this plant, which have been raised by some authors to the rank of species, merge so insensibly into one another, that I feel obliged to include them all under one specific name. The amount of pubescence upon the several parts, as well as the relative length of the calyx-lobes, are very variable, and I have found in the same raceme some pedicels with indications of the two minute bracteolæ, and others without the slightest trace of those appendages, and which latter seem to have their fullest development in plants of the most luxuriant growth.

LXXXVIII. SPHENOCLEACEÆ.

1. SPHENOCLEA, Gærtn.

1. **S. Pongatium,** DC. Prod. vii. p. 548, cum syn.; Wight, Illust. t. 138.—C.P. 1773.

Hab. Warmer parts of the island; not uncommon.

LXXXIX. VACCINIEÆ.

1. VACCINIUM, Linn.

1. **V. Leschenaultii,** Wight, Icon. t. 1188; Walp. Ann. i. p. 477.—*Agapetes? arborea,* DC. Prod. vii. p. 555, cum syn.—C.P. 270 (643).

Var. β; *foliis* lanceolatis vel ovato-lanceolatis; *floribus* pallidioribus.—*Agapetes salicifolia,* Gardn. MSS.

Hab. Newera Ellia and other of the most elevated parts of the Central Province.

XC. ERICACEÆ.

1. GAULTHERIA, Kalm.

1. **G. fragrantissima,** Wall. (DC. Prod. vii. p. 593, cum syn.; Wight, Icon. t. 1196.)—C.P. 42.

Var. β; *ramulis foliis*que subtus plus minus hispidis.—*G. Leschenaultii,* DC. l. c.; Wight, Icon. t. 1195; Wight, Illust. t. 141 *C.*—C.P. 1790.

Hab. Central Province, at an elevation of 7000 to 8000 feet. Nom. vulg. "Kappooroo."

Folia elliptica vel oblongo-lanceolata, obtusa vel acuta, basi angustata, rotundata vel cordata. *Fructus* pulcherrime purpureo-cyanei.

2. RHODODENDRON, Linn.

1. **R. arboreum,** Sm. (DC. Prod. vii. p. 720, cum syn.; Wight, Icon. t. 1201; Wight, Illust. t. 140.)—C.P. 149 (521).

Digitized by Google

HAB. Central Province, at an elevation of 5000 to 8000 feet. Nom. vulg. "Ma-ratmal-gass."

Folia subtus cano- vel pallide fulvo-lepidota.

XCI. LENTIBULARIEÆ.

1. UTRICULARIA, Linn.

1. **U. flexuosa,** Vahl, En. Pl. i. 199; Oliver in Linn. Soc. Journ. (Bot.) iii. p. 175, cum syn. seq., scil.: *U. fasciculata,* Roxb. Fl. Ind. i. p. 143; Wall. Cat. 1499; Wight, Icon. t. 1568. *U. inæqualis,* Benjamin in Linnæa, xx. p. 304. *U. ramosa,* Vahl?—C.P. 2089.

HAB. Common in the warmer parts of the island.

2. **U. diantha,** Rœm. et Sch. (non A. DC. Prod. viii. p. 21); Oliver, l. c. p. 176, cum syn. seq., scil.: Wight, Icon. t. 1569. *U. biflora,* Roxb. Fl. Ind. i. p. 43. *U. Roxburghii,* Spr. Syst. i. p. 52. *U. elegans,* Wall. Cat. 1502. *U. pterosperma,* Edgew. in Proc. Lin. Soc. i. 352.—C.P. 2828.

HAB. Not uncommon in wet paddy-fields.

3. **U. cærulea,** Linn. Herb. (non A. DC. Prod. viii. p. 19); Oliver, l. c. p. 179, cum syn., scil.: *U. pedicellata,* Wight, Icon. t. 1578. f. 2. *U. conferta,* Wight, Icon. t. 1575. *U. squamosa,* Wight, Icon. t. 1579. *U. uliginoides,* Wight, Icon. t. 1573.—C.P. 278 (2086).

Var. β. *affinis; scapo* robustiore, *floribus* minoribus, *calyce fructifero* latiore.—*U. affinis,* Wight, Icon. t. 1580. f. 1; Oliver, l. c. p. 178. *U. brachypoda,* Wight, Icon. t. 1578. f. 1.—C.P. 3308.

HAB. Central Province, at an elevation of 5000 to 8000 feet.

4. **U. reticulata,** Linn. (A. DC. Prod. viii. p. 19, cum syn.; Wight, Illust. ii. t. 143; Oliver, l. c. p. 180, cum syn. seq.)—*U. spiricaulis,* Miq. Pl. Hohen. 574.—C.P. 2090 (2091).

Var. β. *stricticaulis; scapo* firmo, breviore.—Oliver, l. c. cum syn. seq., scil.: *U. cærulea,* var. *stricticaulis,* Kœn. in Hb. Brit. Mus. *U. uliginosa,* Vahl, En. Pl. i. 203. *U. humilis,* Heyne, Wall. Cat. 1495. *U. polygaloides,* Edgew. l. c. p. 351.—C.P. 2088.

HAB. Common in the hotter parts of the island. Nom. vulg. "Nilmonerasse."

5. **U. bifida,** Linn. Herb.; Oliver, l. c. p. 182, cum syn. seq., scil.: *U. biflora,*, Wall. Cat. 1498. *U. antirrhinoides,* ejusd. 1498 *b*. *U. diantha,* A. DC. l. c. p. 21. *U. Wallichiana,* Benj. Bot. Zeit. 1845, 213. *U. humilis,* Wight, Icon. t. 1572. f. 2 (? Vahl.)—C.P. 2087.

Var. β. *Wallichiana; pedicellis* longioribus; *lobis calycinis* acutis. —*U. Wallichiana,* Wight, Icon. t. 1572. f. 1; Oliver, l. c.

HAB. Warmer parts of the island, common.

In my specimens of this plant, varr. α and β appear to merge insensibly into one another.

6. **U. capillacea,** Wight, Herb.; Wall. Cat. 6399; Oliver, l. c. p. 184.—C.P. 3307.

HAB. Near Colombo, *Mr. W. Ferguson*. Negumbo.

Corolla purpurea; *labio inferiore* 3-lobato, lobis lateralibus multo minoribus omnibus apice rotundatis; *calcare* lineari-conico, longiore, porrecto. *Lobi calycis fructiferi* subæquales, orbiculares.

Digitized by Google

7. **U. racemosa,** Wall. Cat. 1496; Wight, Icon. 1854, f. 1; Oliver, l. c. p. 186.—*U. cærulea*, A. DC. l. c. p. 19. An *U. filicaulis*, Wall. Cat. 1501; Oliver, l. c. p. 186.—C.P. 2085.

Var. *β. rosea; scapo* robustiore; *corollæ* labio inferiore majore et calcar obtusiusculum æquante vel superante.—*U. rosea*, Edgw. l. c. p. 352; Oliver, l. c. p. 184.—C.P. 277.

HAB. Var. *a.* Warmer parts of the island. Var. *β.* At an elevation of 5000 to 6000 feet.

The points of difference between varr. *a* and *β* are so unimportant that I feel quite satisfied that they are merely forms of one species. The colour of the corolla varies from a rather deep reddish-purple to nearly white: the flowers of var. *a* are most frequently pale in colour.

8. **U. orbiculata,** Wall. Cat. 1500; Oliver, l. c. p. 187.—*U. glochidiata*, Wight, Icon. t. 1581.—C.P. 2085, 3350.

HAB. Common on wet rocks and mossy trunks of trees in the Central Province, at an elevation of 4000 to 6000 feet.

XCII. PRIMULACEÆ.

1. LYSIMACHIA, Linn.

1. **L. ramosa,** Wall. Cat. 1490; Duby in DC. Prod. viii. p. 65.—*L. alata*, Gardner, MS.—C.P. 1896.

HAB. Central Province, in shady places, at an elevation of 6000 to 8000 feet.

Glabra, 2–4-pedalis. *Caulis* erectus, alatus, ramosus. *Folia* 1½–6 poll. longa, ½–1½ lata, in *petiolum* brevem angustata. *Pedunculi* sesquipollicares. *Calycis* laciniæ (acumine 1 lin.) 3 lin. longæ. *Corolla* pallide lutea. *Capsula* 5-valvis, calyce subæquilonga. *Semina* triangularia, minute muricata.

2. **L. Japonica,** Thunb. Fl. Japon. 83. t. 16.—*L. deltoidea*, Wight, Illus. ii. p. 137. t. 144. *L. umbrosa*, Gardner, MS.—C.P. 1895.

HAB. Newera Ellia and Maturatte, at an elevation of 6000 to 7000 feet.

2. ANAGALLIS, Tourn.

1. **A. arvensis,** Linn.—Var. *β cærulea*.—C.P. 3131.

HAB. Oova District (possibly introduced).

XCIII. MYRSINACEÆ.

1. MÆSA, Försk.

1. **M. Indica,** A. DC. Prod. viii. p. 80, cum syn.; Wight, Icon. t. 1206.—C.P. 1799.

HAB. Very abundant up to an elevation of 5000 feet. Nom. vulg. "Matabimbeya-gass."

2. EMBELIA, Burm.

1. **E. Ribes,** Burm. (A. DC. Prod. viii. p. 85.)—C.P. 1800.

HAB. Common up to an elevation of 4000 feet. Nom. vulg. "Welambilla."

Digitized by Google

2. **E. robusta,** Roxb. Fl. Ind. ii. p. 287; A. DC. Prod. viii. p. 86.—*E. Tsjeriam Cottam,* Wight, Icon. t. 1209. *Basaal,* Rheede, Hort. Mal. v. p. 23. t. 12. An *Tsjeriam Cottam,* Rheede, l. c. p. 21. t. 11?—C.P. 1804.

HAB. Kornegalle and Batticaloa Districts.

3. SAMARA, Linn. Herb.

Choripetalum, A. DC.

1. **S. viridiflora,** Thw.—*S. Rheedei,* Wight, Icon. t. 1591. *Choripetalum viridiflorum,* A. DC. Prod. viii. p. 88. *Pu Walli,* Rheede, Hort. Mal. vii. p. 79. t. 42. An *C. aurantiacum,* A. DC. l. c. var.?—C.P. 610 (741).

HAB. Central Province, at an elevation of 3000 to 5000 feet.

Flores polygamo-dioici. MASC. *Filamenta* petalis multum longiora. *Ovarii rudimentum* parvum, *stylo* brevissimo. FŒM. *Ovarium* 3-ovulatum.

4. MYRSINE, Linn.

1. **M. capitellata,** Wall. in Roxb. Fl. Ind. ii. p. 295; A. DC. Prod. viii. p. 94. An *M. lucida,* Wall.; A. DC. l. c. p. 95?—C.P. 1806 (2599).

Var. β. *parvifolia,* A. DC. l. c., et var. γ *grandiflora,* A. DC. l. c.; Wight, Icon. t. 1211. An *M. umbellata,* A. DC. l. c.?—C.P. 623, 3009, 2598.

Var. δ. *sessiliflora; floribus* sessilibus vel subsessilibus.—An *M. Porteriana,* Wall. List, 6525; A. DC. l. c.?—C.P. 285.

HAB. Central Province, very abundant up to an elevation of 8000 feet.

So variable is this plant as regards the shape and size of the leaves and length of the flower-pedicels, that some of its forms might well pass for distinct species, but that intermediate ones occur rendering it impossible to separate them. Some of my specimens have leaves varying from ¾ to 1½ inch in length, whilst other specimens have them reaching to 7 inches, with a corresponding width; the former occurring upon the tops of the highest hills, and the latter in damp rich forests.

5. ARDISIA, Linn.

1. **A. paniculata,** Roxb. Fl. Ind. ii. p. 270; A. DC. Prod. viii. p. 126.—*A. Missionis,* var. β *verticillata,* A. DC. l. c. p. 130. *A. Courtallensis,* Wight, Icon. t. 1215.—C.P. 1802.

HAB. Central Province, not uncommon up to an elevation of 3000 feet.

2. **A. humilis,** Vahl, Symb. iii. p. 40; A. DC. l. c. p. 129 (in parte).—*Tinus humilis,* Burm. Fl. Zeyl. p. 222. t. 103.—C.P. 2829.

HAB. Near the seashore, Galee District, common. Nom. vulg. "Loonoo-dang-gass."

Frutex 1–6-pedalis. *Folia* ad apices ramulorum compressorum aggregata. *Paniculæ* terminales. *Drupæ* rubræ.

Well distinguished from the next species, with which it has been confounded, by its leaves clustered at the ends of the branchlets, its terminal panicles, and bright-red fruit.

Digitized by Google

3. **A. elliptica,** Thunb. nov. gen. pars 8. Upsal, 1795, ex Rœm. et Sch. Syst. iv. p. 517; A. DC. l. c. p. 138.—*A. umbellata*, Roxb. Fl. Ind. ii. p. 273. *A. polycephala*, Wall.; Wight, Illust. t. 145.—C.P. 1803.

Var. *β. solanacea;* omnino major.—*A. solanacea*, Roxb. Pl. Cor. i. t. 27. *A. humilis*, Wight, Icon. t. 1212; A. DC. l. c. p. 129 (in parte).

HAB. Var. *a*. Not uncommon in the warmer parts of the island. Var. *β*. In gardens, and I have never found it in a wild state. Nom. vulg. "Balloo-dang."

Racemi axillares terminalesque, umbellæformes, *pedunculo* rarius ramoso.

4. **A. pauciflora,** Heyne, (Wall. in Roxb. Fl. Ind. ii. p. 279; A. DC. l. c. p. 127; Wight, Icon. t. 1214.)—C.P. 15 (28, 36).

HAB. Central Province, up to an elevation of 7000 feet.

In all my specimens the pedicels are smooth, or, when young, ferrugineo-squamulose, and not pilose, as represented in Dr. Wight's figure.

5. **A. divergens,** Roxb. Fl. Ind. ii. p. 275; A. DC. l. c. p. 130, cum syn.—C.P. 376 (740).

Var. *β*; *foliis* sinuato-denticulatis.—An *A. crispa*, var. *β*, A. DC. l. c. 134, cum syn.?

HAB. Not uncommon in damp forests, up to an elevation of 5000 feet.

Frutex erectus, 3–6-pedalis. *Folia* membranacea, venosa, ad marginem creberrime tuberculato-glandulosa, 3–6 poll. longa, 1–3 poll. lata. *Flores* roseo-purpurei. *Drupæ* rubræ, 3–4 lin. in diam.

6. **A. Wallichii,** A. DC. l. c. p. 137, cum syn.—C.P. 2667.

HAB. Caltura, *Moon*. Damp shady forests in the Saffragam District.

Suffrutex humilis, ½–2-pedalis, partibus junioribus ferrugineo-lepidotis. *Folia* oblonga vel obovata, abrupte obtuse acuminata, crenulata, venosa, basi angustata, nigro-viridia, subtus rufescentia, 4–8 poll. longa, 1½–3 poll. lata. *Racemi* rubri, terminales axillaresque, sæpius multiflori simplicesque, folio breviores. *Pedunculi* angulares. *Pedicelli* sparsi, sursum incrassati, reflexi, flore subduplo longiores. *Corolla* rosea, laciniis 4 lin. longis. *Antheræ* flavæ. *Drupæ* rubræ, 4 lin. in diam.

XCIV. ÆGICERACEÆ.

1. ÆGICERAS, Gærtn.

1. **Æ. majus,** Gærtn. (A. DC. Prod. viii. p. 142, cum syn.; Wight, Illust. ii. p. 141. t. 146.)—C.P. 1796 (1805).

HAB. Not uncommon on the coast.

XCV. SAPOTACEÆ.

1. CHRYSOPHYLLUM, Linn.

1. **C. Roxburghii,** G. Don, (A. DC. Prod. viii. p. 162.)—*C. acuminatum*, Roxb. Fl. Ind. ii. p. 345.—C.P. 2689.

HAB. Not uncommon in the warmer parts of the island. Nom. vulg. "Lawooloo-gass."

Digitized by Google

Folia oblonga, abrupte rostrato-acuminata, 3–7 poll. longa, ¾–2 poll. lata; *petiolo* 3 lin. longo. *Nuculania* obscure pentagona, ferrugineo-tomentosa, denique glabra. *Semina* 8 lin. longa, 4 lin. lata.

The ripe fruit is eaten by the Cinghalese: the timber is used for building purposes.

2. SAPOTA, Plum.

1. **S. elengoides,** A. DC. Prod. viii. p. 176; Wight, Icon. t. 1218.—C.P. 1795.

HAB. Hot, drier parts of the island.

3. MIMUSOPS, Linn.

1. **M. Elengi,** Linn. (A. DC. Prod. viii. p. 202, cum syn.; Wight, Icon. t. 1586.)—C.P. 1794.

HAB. Warmer parts of the island. Nom. vulg. "Moonemal-gass."

The timber used for building, etc.

2. **M. Indica,** A. DC. l. c. p. 205, cum syn.; Wight, Icon. t. 1587.—C.P. 1793.

HAB. Very abundant in the hot, drier parts of the island. Nom. vulg. "Paloo-gass."

The timber of this valuable tree is extremely hard and strong, and very durable.

4. BASSIA, Kœnig.

Calyx 4-partitus. *Corolla* 6–12-loba. *Antheræ* subsessiles, 2–3-seriales.

1. **B. longifolia,** Linn. (A. DC. Prod. viii. p. 197, cum syn.; Wight, Illust. ii. t. 147.)—C.P. 1797.

HAB. Common in the hotter parts of the island, especially in native gardens. Nom. vulg. "Mee-gass."

The oil of the seeds, under the name of "Mee-tel," is used by the Cinghalese medicinally, and, when fresh, for cooking. The wood is valuable for building purposes.

5. DASYAULUS, Thw. (gen. nov.).

Calyx 4-partitus. *Corolla* 6- vel 8-loba. *Antheræ* corollæ lobis duplo numerosiores, subsessiles, 1-seriales, apice subulato-acuminatæ. Ceteroquin ut in *Bassia.*

1. **D. neriifolius,** Thw. (*Bassia neriifolia,* Moon's Cat. p. 36); *foliis* glabris, anguste oblongo-lanceolatis, obtusis, basi in petiolum brevem angustatis.—C.P. 235.

HAB. Common on the banks of rivers and streams in the warmer parts of the island. Nom. vulg. "Gang-mee."

Arbor mediocris. *Folia* 3–8 poll. longa, 6–12 lin. lata. *Fasciculi* 2–6-flori, versus apices ramulorum conferti. *Pedicelli* glabri, sesquipollicares. *Calyx* 4 lin. longus, lobis interioribus dorso sericeo-strigosis. *Corolla* ad medium 6-partita. *Ovarium* 6-loculare. *Nuculania* oblonga, acuta, 1-sperma, 1¼ poll. longa. *Semina* albuminosa.

2. **D. microphyllus,** Thw.—*Bassia microphylla,* Hook. Ic. i. t. 74.

Digitized by Google

B. parvifolia, A. DC. l. c. p. 198.—C.P. 2648; foliis majoribus, C.P. 2830.

HAB. South of the island, not common.

Corolla 6-loba, rarius 5-loba.

My specimens, numbered C.P. 2830, were collected by Dr. Gardner near Galle, and have leaves a good deal larger than is usual in this species, but agree so well with it in other respects that I hesitate to separate them even as a distinct variety.

3. **D. Moonii,** Thw.; *ramulis junioribus* fulvo-tomentosis; *foliis* glabris, oblongis, obtuse acuminatis vel retusis, basi subacutis, petiolatis; *pedicellis* petiolo subæquilongis.—C.P. 3434.

HAB. Caltura, *Moon;* near Ratnapoora.

Folia 3–7 poll. longa, 1¼–3 poll. lata; *petiolo* ½–¾ poll. longo. *Fasciculi* 2–5-flori. *Corolla* 6-loba. *Nuculania* oblonga, acuta, 1½ poll. longa. *Semina* parce albuminosa.

4. **D. fulvus,** Thw.; *ramulis foliis*que *junioribus* dense fugaci-fulvo-tomentosis; *foliis* obovato-oblongis, abrupte brevi-acuminatis, basi angustatis, petiolatis; *pedicellis* petiolo subduplo longioribus.—C.P. 3446.

HAB. Hewessee, in the Pasdoon Corle.

Arbor mediocris. *Folia* 4–7 poll. longa, 1½–3 poll. lata, *petiolo* ¾ poll. longo. *Fasciculi* 6–8-flori. *Calyx* 3–4 lin. longus. *Ovarium* 6-loculare.

To the present genus is to be referred *Isonandra polyandra,* Wight, Ic. t. 1589.

6. DICHOPSIS, Thw. (gen. nov.).

Calyx 6-partitus, lobis 2-serialibus. *Corolla* 6-loba. *Stamina* 12, omnia fertilia. *Filamenta* brevia, 1-serialia, alterna *longiora* (corollæ lobis opposita) antheras subextrorsas, *breviora* (vix ulla) subintrorsas gerentia. *Antheræ* apice divaricato-bicornes. *Ovarium* 6-loculare.

Genus notabile, quoad stamina breviora *Dasyaulo,* longiora *Isonandræ* approximans.

1. **D. petiolaris,** Thw.—C.P. 3012.

HAB. Ambagamowa District, and the Hinidoon and Reigam Corles.

Arbor magna. *Folia* glabra, ovata, subabrupte brevi-acuminata, basi acuta, 3–5 poll. longa, 1½–3 poll. lata; *petiolo* 1–1½ poll. longo. *Fasciculi* 2–5-flori, axillares, ad apices ramulorum conferti, fulvo-tomentosi. *Pedicelli* petiolo subæquilongi. *Calyx* 4 lin. longus. *Corolla* albida, 7 lin. longa, tubo interne pilosa. *Nuculania* subsphærica, 1-sperma, 1¼ poll. in diam.

7. ISONANDRA, Wight.

Calyx corollæ lobis isomerus; *stamina* iisdem duplo numerosiora. *Filamenta* corollæ tubo subæquilonga. *Antheræ* extrorsæ, apice acuminatæ. *Nuculania* carnosa.

Sect. 1. *Calyx* 6-*partitus.*

1. **I. grandis,** Thw.; *foliis* glabris (junioribus cano-sericeis) obovatis, obtusis, abrupte brevi-acuminatis vel rotundatis, basi cuneatis, subtus prominentim venosis, petiolatis; *pedicellis* petiolo subæquilongis.—C.P. 619 (2507); foliis minoribus, C.P. 2402.

HAB. Central Province and Saffragam District, at an elevation of 3000 to 6000 feet. Nom. vulg. "Meeria-gass."

Digitized by Google

Arbor ingens. *Folia* 2–10 poll. longa, 1–6 poll. lata, *petiolo* ½–1 poll. longo, superne plano. *Fasciculi* 4–6-flori, ad apices ramulorum conferti, adpresse fulvo-pilosi. *Calyx* 3–4 lin. longus. *Corolla* albida, calyce subduplo longior. *Ovarium* 6-loculare. *Nuculania* ovoidea, nigro-purpurea, sesquipollicaria. *Semina* exalbuminosa.

An oil is extracted from the seeds of this tree, which is used in the same way as that from the *Bassia longifolia*.

2. **I. rubiginosa,** Thw.; *foliis* coriaceis, ellipticis, obovatis vel obovato-oblongis, apice subacutis vel rotundatis, basi angustatis, subtus dense rubiginoso-pilosis, petiolatis; *pedicellis* petiolo æquilongis vel 2–3-plo longioribus.—C.P. 394, 3447.

HAB. Saffragam District and Hinidoon Corle, up to an elevation of 4000 feet.

Arbor ingens. *Folia* 2½–7 poll. longa, 1½–3 poll. lata, *petiolo* ½–¾ poll. longo, superne convexo. *Fasciculi* 6–10-flori, adpresse rubiginoso-pilosi. *Calyx* 4 lin. longus. *Ovarium* 6-loculare. *Nuculania* ovoidea.

3. **I. canaliculata,** Thw.; *foliis* glabris, oblongis, brevi-acuminatis, basi rotundatis vel subacutis, superne ad costam (cum *petiolo* longiusculo) canaliculatis; *pedicellis* petiolo æquilongis vel dimidio longioribus.—C.P. 3473 (3436).

HAB. Caltura District.

Arbor mediocris. *Folia* 3–11 poll. longa, 1½–4½ poll. lata, *petiolo* 1–1¾ poll. longo. *Fasciculi* 4–6-flori, adpresse fulvo-pilosi. *Calyx* 4 lin. longus. *Ovarium* 6-loculare. *Nuculania* ovoïdea.

4. **I. pauciflora,** Thw.; *foliis* glabris, oblongis, brevi-acuminatis, basi acutis, superne ad costam (cum *petiolo* longiusculo) canaliculatis; *fasciculis* ad apices ramulorum paucis, 2–3-floris; *pedicellis* brevissimis, ovario 3–4-loculari; *nuculaniis* oblongis.—C.P. 2680.

HAB. Near Ratnapoora, at no great elevation.

Arbor mediocris. *Folia* 3–8 poll. longa, 1–3 poll. lata, *petiolo* ½–1 poll. longo. *Calyx* 1½ lin. longus.

5. **I. lævifolia,** Thw.; *ramulis* cum *petiolis fasciculis*que adpresse fusco-pilosis; *foliis* glabris, utrinque lævibus nitidisque, oblongo-lanceolatis, obtusis, basi in petiolum brevem, superne convexum, angustatis; *pedicellis* petiolo æquilongis, vel parum longioribus; *nuculaniis* oblongis, acutis.—C.P. 2832.

HAB. Saffragam District and Reigam Corle, at no great elevation.

Arbor mediocris. *Folia* 2–6 poll. longa, ¾–2 poll. lata, *petiolo* 2–3 lin. longo. *Fasciculi* 4–6-flori, axillares, ad apicem ramulorum solitarii vel bini. *Calyx* 1½ lin. longus. *Antheræ* apice pilosæ. *Ovarium* 6-loculare.

Sect. 2. *Calyx 4-partitus.*

6. **I. Wightiana,** A. DC. l. c. p. 187, cum syn.—*I. Perottetiana,* A. DC. l. c. p. 188; Wight, Ic. t. 1219. *I. Candolleana,* Wight, Ic. t. 1220. An *I. lanceolata,* Wight, Ic. t. 359?—C.P. 45 (47, 192, 2411).

Var. *β. angustata; foliis* lanceolatis, ab infra-medio versus apicem angustatis, subtus (ut in var. *a*) delicatule subparallelim venulosis.—C.P. 179 (191).

Var. *γ. montana; foliis* subcoriaceis, obovatis, apice rotundatis vel obscure brevi-acuminatis, subtus plus prominentim parceque venosis quam in varr. *a* et *β*.—C.P. 3092.

HAB. Var. *a*. Extremely abundant at an elevation of 2000 to 5000

Digitized by Google

feet. Var. β. Near Galagama, *Gardner*. Var. γ. Newera Ellia. Nom. vulg. "Kiriwarala-gass."

Arbor mediocris. *Folia* glabra (juniora plus minus pilosa), lanceolata, obovato-lanceolata, obovata vel suborbicularia, plus minus abrupte breveque acuminata, 1–5 poll. longa, 4 lin. 2½ poll. lata, *petiolo* 2–4 lin. longo. *Pedicelli* brevissimi vel subnulli. *Ovarium* sæpissime 4-loculare. *Nuculania* oblonga, 1–2-sperma, coccinea, 6 lin. longa. *Semina* castanea, nitida, albuminosa.

I was at one time disposed to regard some of the forms of this most variable plant as distinct, but further observation and the examination of a large number of specimens, satisfy me that they all belong to one species. I have little doubt, too, that Dr. Wight's *Is. lanceolata* is a form of the present plant, for I have examples of it extremely like his figure.

XCVI. EBENACEÆ.

1. DIOSPYROS, Dal., Linn.

† *Flores pedunculati.*

‡ Flor. masc. *Corolla breviuscula, campanulata vel urceolata; staminibus inter se subæquilongis.*

1. **D. Embryopteris,** Pers. (A. DC. Prod. viii. p. 235, cum syn.; Wight, Icon. tt. 843, 844.)—c.p. 1915.

Var. β. *atrata; foliis* membranaceis, *gemmis, pedunculis calyce*que nigro-pilosis.—c.p. 2731.

Var. γ. *nervosa; foliis* brevioribus, coriaceis, utrinque valde prominentim venosis, basi rotundatis; *gemmis, pedunculis calyce*que nigro-pilosis; *lobis calycis fructiferi* erectis.—c.p. 1910.

Hab. Var. α. Very abundant in the hotter parts of the island. Var. β. Less common, but generally distributed. Var. γ. In damp forests towards the south of the island. Nom. vulg. "Timberee-gass."

Though disposed at one time to regard the three well-marked varieties of this plant as distinct species, I now find it impossible, after a most careful examination, to discover any distinctive characters of sufficient importance to justify my separating them otherwise than as varieties. The black colour of the pubescence upon the gemmæ and inflorescence of varr. β and γ, gives them a different aspect from that of var. α, but black hairs are frequently intermixed with the pale pubescence of the latter, especially upon the gemmæ. In all the specimens I have examined, the ovary has been 8-celled.

The timber of this tree is used for buildings: the juice of the unripe fruit is employed for paying the seams of fishing-boats, and for putting upon their cordage and lines.

2. **D. cordifolia,** Roxb. (Pl. Cor. i. p. 38. t. 50; A. DC. l. c. p. 230, cum syn.)—*D. montana*, Wight, Ic. t. 1225 (non Roxb.).—c.p. 1909.

Hab. Jaffna, *Gardner*.

I have not seen the female flowers of this species, so am unable to ascertain whether they have four sterile stamens, as shown in Dr. Wight's figure, or a greater number, as represented in Roxburgh's; but it is probable, judging from other species, that the number of these organs is not very constant. The albumen of the seeds is not ruminate.

3. **D. sylvatica,** Roxb. (Roxb. Pl. Cor. i. p. 38. t. 47; A. DC. l. c. p. 231, cum syn.)—c.p. 2729.

Hab. Damp forests in the Hantani District and near Ratnapoora, up

Digitized by Google

to an elevation of 4000 feet. Nom. vulg. "Soodoo-Kadoombaireya-gass."

Tota planta siccitate nigrescens. *Ovarium* 6- vel 8-loculare. *Nuculania* sphærica, 8 lin. in diam. *Semina* oblonga, 6 lin. longa, 4 lin. lata, *albumine* ruminato.

4. **D. Toposia,** Ham. (A. DC. l. c. p. 237, cum syn.)—*D. racemosa*, Roxb. Fl. Ind. ii. p. 536; Wight, Ic. t. 416.—C.P. 1911.

HAB. Not uncommon in damp forests, up to an elevation of 4000 feet. Nom. vulg. "Kahakaala-gass."

This agrees so well with Hamilton's description of his plant, except that he mentions the corolla as being five-lobed, that I cannot doubt their identity, and it certainly must be the one represented in Dr. Wight's figure, copied from Roxburgh's drawing. The inflorescence, however, is by no means racemose, but distributed over the lower leafless portion of the ramulus, and in the axils of a few of its lowest leaves. The female flowers are solitary, and the males in three-flowered cymes. In species of this genus, where the inflorescence is more apparently racemose, as in *D. Embryopteris*, it is not truly so, for the terminal flower being the first to expand, the inflorescence is really a modified cyme.

‡‡ FLOR. MASC. *Corolla longiuscula, hypocrateriformi; staminibus inter se valde inæquilongis.*

5. **D. crumenata,** Thw.; *foliis* glabris, oblongis, abrupte acuminatis, obtusis, basi rotundatis vel parum angustatis. MASC. *Cymis* 3–5-floris, cernuis, pilosis, petiolo subæquilongis; *calyce* obscure 4-dentato. FLOR. FŒM. solitariis, majusculis, cernuis; *calyce* utrinque piloso, ad medium 4-lobo, inter lobos marsupio-dilatato; *lobis* rotundatis, apiculatis; *ovario* 8-loculari; *nuculaniis* subsphæricis 6–8-spermis.—C.P. 2438.

HAB. Central Province, at an elevation of 2000 to 4000 feet.

Arbor ingens. *Ramuli* glabri. *Folia* 2–5 poll. longa, 1–2 poll. lata, siccitate fuscescentia, *petiolo* 3–4 lin. longo. FLOR. MASC. *Calyx* 2 lin. longus. *Corolla* 5 lin. longa. *Stamina* circiter 12. FLOR. FŒM. *Calyx* 4 lin. longus. *Corolla* calyce parum longior. *Stamina ster.* circiter 12. *Nuculania* 1½–2 poll. in diam., demum glabra, calyce aucto tetragono suffulta. *Semina* nigra, nitida, 1 poll. longa, ½ poll. lata, *albumine* ruminato.

6. **D. affinis,** Thw.; *foliis* glabris, subcoriaceis, prominentim reticulato-venosis, oblongis, plus minus acuminatis, obtusis, basi acutis vel subrotundatis. MASC. *Cymis* 3–7-floris, cernuis, pilosulis, petiolo parum longioribus; *calyce* breve 4-dentato. FLOR. FŒM. solitariis, majusculis, cernuis, pedunculo subæquilongis; *calyce* interne piloso, externe subglabro, ad medium 4-lobo, inter lobos marsupio-dilatato; *lobis* longiuscule acuminatis; *ovario* 6-loculari; *nuculaniis* sphæricis, apiculatis, sæpissime 4-spermis.—C.P. 2924.

HAB. Ooma Oya, on the lower road from Kandy to Badulla.

Arbor mediocris. *Ramuli* subglabri. *Gemmæ* pilosæ. *Folia* 1½–4½ poll. longa, 6–16 lin. lata, siccitate nigrescentia, *petiolo* 3–5 lin. longo. FLOR. MASC. *Calyx* 1½ lin. longus. *Corolla* 4 lin. longa. *Stamina* circiter 9. FLOR. FŒM. *Calyx* 5 lin. longus. *Nuculania* pollicaria, denique glabra. *Semina* 6–7 lin. longa, 4 lin. lata, *albumine* ruminato.

Although very closely allied to the preceding species, I think it may be considered distinct. The timber of both species is suitable for building purposes.

7. **D. quæsita,** Thw.; *foliis* glabris, oblongis, abrupte acuminatis, obtusis, basi parum angustatis, prominentim reticulato-venulosis, superne ad costam cum *petiolo* canaliculatis. MASC. *Cymis* 3–7-floris, cernuis, pilosis, petiolo subæquilongis; *calyce* breve 5-dentato. FLOR.

Digitized by Google

FŒM. solitariis, calyce ad medium 5-lobo, inter lobos marsupio-dilatato; *lobis* acutiusculis; *nuculaniis* subsphæricis.—C.P. 3010.

HAB. Singherajah and other forests between Ratnapoora and Galle. Nom. vulg. "Kaloomidereya-gass."

Arbor ingens. *Ramuli* glabri. *Folia* 3–7 poll. longa, 1¾–3 poll. lata, siccitate fusco-nigrescentia, *petiolo* 3–7 lin. longo. *Nuculania* (immatura) bipollicaria.

This species produces the most valuable of the timber known as Calamander-wood, so much esteemed for ornamental cabinet-work. I regret that my specimens are too imperfect to allow of my giving so full a description as would be desirable of this interesting plant, which is nearly allied to *D. crumenata*, but its larger leaves and fruit, and its pentamerous flowers, well distinguish it.

8. **D. Ebenum,** Retz, (A. DC. l. c. p. 234, cum syn.; Wight, Icon. t. 188.)—C.P. 1912 (1913, 2437, 2439).

HAB. Not uncommon up to an elevation of 5000 feet. Nom. vulg. "Kaloowara-gass."

Arbor ingens. *Folia* membranacea vel parum coriacea, brevi-acuminata, rarius retusa, 2–7 poll. longa, ¾–2½ poll. lata, *petiolo* 2–4 lin. longo. *Ovarium* 8-loculare. *Semina* albumine non ruminato.

This tree yields the best kind of Ebony-wood.

Dr. Wight's figure, copied from Roxburgh's drawing, is not characteristic of this species as it commonly occurs here, the lobes of the corolla being represented too large, and the leaves without the usual somewhat abrupt obtuse acumination.

9. **D. oocarpa,** Thw.; *foliis* glabris, membranaceis, ovatis vel ellipticis, obtuse acuminatis, basi rotundatis vel parum angustatis, inconspicue venosis. INFLOR. MASC. racemoidea, pilosula; *pedunculo* 3–6-floro, petiolum æquante vel breviore; *pedicellis* brevissimis; *calyce* subintegro vel obscure 3–4-dentato. FLOR. FŒM. 1–3-nis; *ovario* 6- vel 8-loculari; *nuculaniis* ovoideis, rugulosis, sæpissime 6-spermis, calyce vix aucto suffultis.—C.P. 1914.

HAB. Kornegalle District, and at Haragam, near Kandy, at no great elevation. Nom. vulg. "Kaloo-kadoombaireya-gass."

Arbor mediocris. *Ramuli juniores* minute pilosuli. *Folia* 2–4 poll. longa, 1½–2½ poll. lata, *petiolo* 3–4 lin. longo. FLOR. MASC. *Calyx* 2 lin. longus. *Corolla* 5 lin. longa. *Stamina* circiter 12. FLOR. FŒM. quam masc. vix majores. *Nuculania* (immatura) pollicaria. *Semina* albumine non ruminato.

†† *Flores sessiles vel subsessiles.*

‡ FLOR. MASC. *Staminibus indefinitis, inter se valde inæquilongis.*

10. **D. insignis,** Thw.; *foliis* suboppositis vel alternis, majusculis, membranaceis, glabris, oblongis, acuminatis, parallelim delicatule venulosis, basi angustatis vel rotundatis. MASC. *Capitulis* multifloris; *calyce* ad medium 4-partito; *lobis* acutis. FLOR. FŒM. 1–2-nis; *ovario* 8-loculari; *nuculaniis* subsphæricis, minute depresso-areolatis, calyce aucto, crasso, lignoso et tota margine quasi late reflexa suffultis.—C.P. 2730, 3477.

HAB. Damp forests, up to an elevation of 2000 feet. Nom. vulg. "Gona-gass."

Arbor ingens. *Ramuli juniores* pilosuli. *Folia* 4–14 poll. longa, 1½–6 poll. lata, siccitate fuscescentia, *petiolo* 3–5 lin. longo. FLOR. MASC. *Calyx* 1½ lin. longus. *Corolla* 4 lin. longa. *Stamina* circiter 20. FLOR. FŒM. *Nuculania* sesquipollicaria. *Semina* 11 lin. longa, 6 lin. lata, *albumine* ruminato.

A valuable timber-tree.

Digitized by Google

11. **D. oppositifolia,** Thw.; *foliis* oppositis, glabris (junioribus pilosulis), firmis, ovatis vel ellipticis, abrupte brevi-acuminatis, obtusis, basi rotundatis, obscure parallelim venulosis, brevi-petiolatis. — C.P. 3011.

HAB. Hinidoon Corle, up to an elevation of 1000 feet. Nom. locale "Kaloomidereya-gass."

Arbor mediocris. *Folia* 2–6 poll. longa, 1½–3 poll. lata, siccitate fuscescentia, *petiolo* 1–2 lin. longo. MASC. *Capitula* (in meis specim.) pauciflora. *Calyx* 1 lin. longus, fere ad medium 4-lobus, *lobis* acutis. *Corolla* tenuis, circiter 3 lin. longa. *Stamina* circiter 8. FLOR. FŒM. adhuc ignoti.

The timber of this tree very much resembles the true Calamander-wood.

12. **D. Gardneri,** Thw.; *foliis* membranaceis, glabris, nitidis, inconspicue venosis, oblongis, acuminatis, basi parum angustatis, petiolatis; *floribus* brevissime pedicellatis, pilosis; *calyce* ad medium 4-partito; *lobis* triangularibus, acutis; *corollæ* tubo parum inflato; *ovario* 8-loculari; *nuculaniis* depresso-sphæricis, apiculatis, fulvo-pilosis, denique glabris, nitidis, ad dimidium inferius calyce valde aucto obtectis.—C.P. 1908.

HAB. Saffragam and Kornegalle Districts, and, less commonly, near Kandy. Nom. vulg. "Kadoombaireya-gass."

Arbor mediocris. *Ramuli* teretes, glabri. *Gemmæ* fusco-pilosæ. *Folia* 3–7 poll. longa, 1½–2 poll. lata, siccitate nigrescentia; *petiolo* 3–4 lin. longo. FLOR. MASC. 1–4-ni. *Calyx* 2 lin. longus. *Corolla* 5 lin. longa. *Stamina* circiter 12, filamentis pilosis. FLOR. FŒM. solitariis, erectis. *Calyx* 2½ lin. longus, *lobis* recurvatis, margine reflexis. *Nuculania* (immatura) pollicaria.

The timber of this tree is valuable for building and for cabinet-work.

‡‡ FLOR. MASC. *Staminibus indefinitis, inter se subæquilongis.*

13. **D. ovalifolia,** Wight, Ic. t. 1227.—C.P. 1815, 2533.

HAB. Jaffna, *Gardner*. Central Province, at Hewahette and below Hapootelle, at an elevation of 2000 to 4000 feet.

Arbor mediocris. *Folia* 1½–6 poll. longa, ½–2 poll. lata, siccitate fulvescentia, *petiolo* 2–3 lin. longo. *Flores* 4- vel 5-meri. MASC. *Stamina* 15–20. *Ovarii rudimentum* parvum, conicum. FŒM. *Capitula* 3–6-flora. *Stamina sterilia* 1–7. *Ovarium* 4- vel 6-loculare. *Stigma* 2–3-lobum, *lobis* reniformibus. *Nuculania* glabra, sphærica, glauca, 8 lin. in diam., sæpissime 1-sperma. *Semina* subsphærica, *albumine* non ruminato.

14. **D. Candolleana,** Wight, Ic. tt. 1221, 1222.—C.P. 3394.

HAB. Saffragam District and Hinidoon Corle. Nom. vulg. "Homedereya-gass."

Arbor mediocris, *ramulis, foliis junioribus inflorescentia*que ferrugineo-tomentosis. *Folia* sæpius longe acuminata, siccitate fulvescentia. MASC. *Stamina* 10–12. FŒM. *Nuculania* subsphærica, ferrugineo-pilosa, denique glabra, 7–8 lin. in diam., sæpissime 4-sperma. *Semina* oblonga, nigrescentia, transverse striata, 5 lin. longa, 2½ lin. lata, *albumine* ruminato.

‡‡‡ *Staminibus tot quot lobi corollæ.*

15. **D. hirsuta,** Linn. f. (Supp. p. 440; A. DC. l. c. p. 223.)—C.P. 382.

HAB. Forests in the Saffragam and Galle Districts.

Arbor mediocris, *ramulis, foliis junioribus inflorescentia*que ferrugineo-tomen-

Digitized by Google

tosis. *Folia* subcoriacea, elliptica vel oblonga, plus minus abrupte acuminata, basi parum angustata, subtus tomentosa, demum subglabra, siccitate rufescentia, 3–8 poll. longa, 1–3 poll. lata, *petiolo* tomentoso, 3–4 lin. longo. MASC. *Capitula* multiflora. *Calyx* 1 lin. longus, vix ad medium 5-partitus. *Corolla* circiter 2 lin. longa. *Ovar. rudim.* parvum. FLOR. FŒM. 1–3-ni. *Calyx* crassus, 3 lin. longus, ultra medium 5-partitus; *lobis* triangularibus, acutis, margine reflexis. *Corolla* calyce parum longior. *Ovarium* sæpissime 10-loculare. *Nuculania* ovoidea, apiculata, fulvo-tomentosa, 9 lin. longa, 6–10-sperma, calyce aucto suffulta. *Semina* nigra, transverse striata, 7 lin. longa, 3 lin. lata, *albumine* ruminato.

Female flowers are occasionally intermixed in the male capitula, and in that case are much smaller than when occurring alone. I have not yet been able to ascertain whether these smaller female flowers produce perfect fruit, but one which I dissected had the ovary only 6-celled.

16. **D. Moonii,** Thw.; *foliis* coriaceis, oblongis, acuminatis, basi rotundatis, superne glabris, costa petioloque canaliculatis, subtus sparse pilosulis; *calyce* fere ad medium 5-partito; *lobis* triangularibus, acutis; *ovario* 10-loculari; *nuculaniis* sphæricis, subglabris.—C.P. 2833.

HAB. Near Caltura, *Moon;* Pasdoon Corle.

Arbor mediocris. *Ramuli* teretes, pilosuli, cito glabri, cortice fisso, nigro-cinerascente. *Folia* 5–12 poll. longa, 1½–4 poll. lata, *petiolo* 3 lin. longo. *Inflorescentia* axillaris, et quoque in axillis foliorum delapsorum, fulvo-pilosa. MASC. *Capitula* 6–10-flora. *Calyx* 2 lin. longus. *Corolla* circiter 4 lin. longa. FLOR. FŒM. 1–2-ni. *Calyx* crassus, 3 lin. longus, margine revoluto. *Corolla* calyce subæquilonga. *Stigma* obscure 5-lobum. *Nuculania* sesquipollicaria, 6–10-sperma, calyce aucto suffulta. *Semina* oblonga, compressa, transverse rugosa, nigrescentia, 7 lin. longa, 4 lin. lata, *albumine* ruminato.

17. **D. acuta,** Thw.; *foliis* coriaceis, glabris vel subtus sparsissime pilosis, oblongo-lanceolatis, acutis, basi rotundatis, inconspicue venosis, superne costa petioloque canaliculatis; *calyce* ultra medium 4–5-partito; *lobis* lanceolatis, acutis; *ovario* 4- vel 6-loculari; *nuculaniis* acuminatis, sæpissime 2–3-spermis.—C.P. 3476.

HAB. Pasdoon Corle.

Arbor mediocris. *Ramuli* teretes, pilosuli, cito glabri. *Gemmæ* adpresse fulvo-pilosæ. *Folia* 5–12 poll. longa, 1–3 poll. lata, siccitate subtus rufescentia, *petiolo* ½–1 poll. longo. *Inflorescentia* adpresse fulvo-pilosa, aliquando monoica et tunc capitulis fœmineis versus apicem ramulorum, masculis infra. MASC. *Capitula* multiflora. *Calyx* 2 lin. longus. *Corolla* circiter 4 lin. longa. *Ovarii rudiment.* minutissimum. FLOR. FŒM. 1–4-ni. *Calyx* 4–5 lin. longus, *lobis* ad marginem plus minus reflexis. *Corolla* calyce subæquilonga. *Stigmata* 2–3, 1 lin. longa, spathuliformia. *Nuculania* sesquipollicaria, calyce parum aucto suffulta. *Semina* castanea, nitida, oblonga, acuminata, pollicaria, *albumine* non ruminato.

18. **D. attenuata,** Thw.; *foliis* membranaceis, glabris vel sparsissime pilosulis, oblongis, acuminatis, basi in petiolum brevem angustatis, creberrime venulosis; *calyce* ultra medium 4–5-partito; *lobis* lanceolatis, acutis; *ovario* 4-loculari; *nuculaniis* oblongis, acuminatis, sæpissime 2–3-spermis.—C.P. 3478.

HAB. Pasdoon Corle.

Arbor mediocris. *Folia* 1½–4 poll. longa, ½–1 poll. lata, siccitate pallide fusca, *petiolo* 1–2 lin. longo. *Inflorescentia* pilis testaceis, nigris intermixtis, strigosa. MASC. *Capitula* 3–10-flora. *Calyx* 1 lin. longus. *Corolla* circiter 2 lin. longa. FLOR. FŒM. solitarii. *Calyx* 3–4 lin. longus, *lobis* ad marginem plus minus reflexis. *Corolla* calyce parum longior. *Stigmata* 2, brevia, spathuliformia. *Nuculania* 1–1½ poll. longa. *Semina* castanea, nitida, oblonga, acuminata, *albumine* non ruminato.

Digitized by Google

2. MACREIGHTIA, A. DC.

1. **M. oblongifolia,** Thw.; *foliis* subcoriaceis, oblongis, acuminatis, basi rotundatis, subtus ad nervos cum petiolo brevi fulvo-hispidis, denique glabris. FLOR. FŒM. solitariis, brevi-pedunculatis; *calyce* hispido, ad basin 3-partito; *lobis* acutis; *ovario* piloso, 6-loculari; *nuculaniis* subsphæricis, fulvo-tomentosis, 3–6-spermis.—C.P. 3396.

HAB. Near Ratnapoora, and in the Singherajah and other forests between that place and Galle.

Arbor parva. *Ramuli* juniores valde hispidi. *Folia* 3–7 poll. longa, 1–2½ poll. lata, *petiolo* 1–2 lin. longo. *Nuculania* pollicaria, calyce non aucto suffulta. *Semina* 6 lin. longa, 4 lin. lata, nigrescentia, *radicula* cylindrica, cotyledonibus oblongis dimidio longiore, *albumine* non ruminato.

I have as yet only obtained specimens of this plant bearing ripe and unripe fruit, so am not quite certain that it is a true *Macreightia*, but it agrees with this genus in the characters my specimens exhibit.

3. MABA, Forst.

1. **M. buxifolia,** Pers. (A. DC. Prod. viii. p. 240, cum syn.; Wight, Ic. t. 763.)—C.P. 477.

Var. *β. microphylla; foliis* parvulis.—C.P. 1916.

Var. *γ. Ebenus; foliis* majoribus, membranaceis, parum acuminatis vel retusis, sæpe suborbiculatis.—*M. Ebenus,* Spr.; A. DC. l. c. p. 242, cum syn. *M. Neilgherrensis,* Wight, Ic. tt. 1228, 1229.—C.P. 3395.

Var. *δ. angustifolia; foliis* lanceolatis vel lineari-lanceolatis, obtusis. —*M. angustifolia,* Miq.—C.P. 1917.

HAB. Varr. *α.* and *β.* Hot, drier parts of the island. Var. *γ.* Ambagamowa District, and near Ratnapoora. Var. *δ.* On the banks of rivers. Nom. vulg. "Kaloo-habaraleya-gass."

I have devoted much time to the examination of the several very different-looking varieties of this plant, expecting to discover some sufficiently important constant characters to enable me to separate them specifically, but I find them so completely connected together by intermediate forms, that I have no hesitation in considering them all as representing only one very variable species: variable, it may truly be called, since the leaves in var. *β* are sometimes not a quarter of an inch in length, whilst in var. *δ* they reach to five inches in length.

XCVII. AQUIFOLIACEÆ.

1. ILEX, Linn.

† *Flores tetrameri.*

1. **I. denticulata,** Wall. (Wight, Illust. t. 142.)—C.P. 573.

HAB. Bopatalawa Plains, at an elevation of 6000 feet.

Arbor magna. *Ramuli* angulosi, minutissime puberuli, cito glabri, cinerascentes. *Folia* subcoriacea, glabra, oblonga, abrupte rostrato-acuminata, acute serrata, 1½–3½ poll. longa, ¾–1¼ poll. lata, siccitate fuscescentia, *petiolo* 2–3 lin. longo. *Pedunculi* subnulli vel plus minus elongati. *Pedicelli* 3–4 lin. longi, umbellati vel sparsi. *Corolla* 3½–4 lin. in exp.

†† *Flores pentameri.*

2. **I. Wightiana,** Wall. (Wight, Ic. t. 1216.)—C.P. 2656, 3484.

Digitized by Google

Hab. Southern and central parts of the island, up to an elevation of 4000 feet.

Folia 2–5 poll. longa, 1–2½ poll. lata, *petiolo* 3–4 lin. longo. *Pedunculi* sæpe elongati ramosique. *Pedicelli* umbellati, minutissime puberuli.

3. **I. Walkeri,** Wight et Gardn. MSS.; *foliis* parvis, coriaceis, glabris, nitidis, integris vel rarius parce denticulatis, oblongis vel rotundatis, acutis vel retusis mucronulatisque, basi plus minus angustatis; *umbellis* sessilibus vel brevi-pedunculatis. — An *I. integra,* Thunb. Fl. Jap. p. 77?—C.P. 298 (622, 647).
Hab. Central Province, at an elevation of 5000 to 8000 feet.

Arbor parva. *Ramuli* angulosi, dense foliosi. *Folia* 4–12 lin. longa, 2–7 lin. lata, *petiolo* 1½–2 lin. longo, parum alato. *Pedicelli* circiter 1½ lin. longi. *Flores* parvuli, albidi.

XCVIII. SYMPLOCEÆ.

1. SYMPLOCOS, Jacq.

Sect. *Ciponima,* A. DC.

Ovarium 2-loculare.

1. **S. pendula,** Wight, Ic. t. 1237; Walp. Ann. i. p. 500.—C.P. 504 (555, 665).
Hab. Central Province, at an elevation of 5000 to 8000 feet; abundant.

Sect. *Hopea,* A. DC.

† *Folia secus ramulum fere ad basin disposita.*

2. **S. spicata,** Roxb. (A. DC. Prod. viii. p. 254, cum syn.; Wight, Illust. ii. t. 150, et var. β *Zeylanica,* A. DC. l. c. cum syn.)—C.P. 473.
Hab. Very abundant. Var. α in more elevated situations, up to 7000 feet. Var. β in the hotter, lower parts of the island. Nom. vulg. "Bōmboo-gass."

3. **S. rufescens,** Thw.; arborea, glaberrima; *foliis* oblongo-lanceolatis, brevi-acuminatis, obtusis, inconspicue venosis, a medio ad apicem obscure crenulatis denticulatisque, basi acutis; *racemis* simplicibus, folio multo brevioribus; *floribus* inferioribus pedicellatis; *bracteis bracteolis*que parvis, glabris, margine ciliatis.—C.P. 3639 (473 partim).
Hab. Ambagamowa District.

Ramuli angulosi. *Folia* 1½–4 poll. longa, ¾–1½ poll. lata, siccitate rufescentia; *petiolo* 2–3 lin. longo. *Bracteæ* rotundatæ, cito deciduæ. *Bracteolæ* oblongæ, calyce dimidio breviores, subpersistentes. *Calyx* glaber, lobis rotundatis, parum acutis, margine ciliatis.

Closely resembling var. β of the preceding species, but apparently quite distinct. I have not seen the fruit of the present plant.

4. **S. læta,** Thw.; arborea, glaberrima; *foliis* ovato-lanceolatis, acuminatis, obscure denticulatis, basi acutis, subtus parce prominentim venosis; *racemis* folio subæquilongis vel brevioribus, basin versus nudis; *floribus* sessilibus vel inferioribus subsessilibus; *bracteis* glabris, parvis, oblongis; *bracteolis* nullis; *baccis* oblongis.—C.P. 165 (582, 2436).

Digitized by Google

HAB. Not uncommon in the more elevated parts of the Central Province.

Ramuli teretes, striati. *Folia* 1½–4 poll. longa, 6–16 lin. lata, juniora cyaneo-viridia, denique flavescentia; *petiolo* 3–8 lin. longo. *Calyx* glaber, tubo obconico; *lobis* rotundatis, subacutis, ciliolatis.

5. **S. bractealis,** Thw.; arborea, glaberrima; *foliis* ovatis vel ovato-lanceolatis, acutis, glanduloso-serratis, creberrime venosis, basi obtusis vel subacutis, brevi-petiolatis; *racemis* folio brevioribus; *floribus* sub-sessilibus; *bracteis bracteolis*que majusculis, glabris, margine ciliatis, deciduis; *baccis* oblongis.—C.P. 174 (676).

HAB. Forests in the more elevated parts of the Central Province.

Ramuli teretes, striati. *Folia* 1½–4 poll. longa, 1–2 poll. lata; *petiolo* 1–2½ lin. longo. *Bracteæ* rotundatæ, 2–3½ lin. longæ, *bracteolis* oblongis majores. *Calyx* glaber, lobis rotundatis.

6. **S. obtusa,** Wall. (A. DC. l. c. p. 255; Wight, Ic. t. 1233).—C.P. 626 (673).

Var. β. *major; foliis* majoribus, brevissime acuminatis, rotundatis vel retusis; *floribus* parum minoribus.—C.P. 1820.

Var. γ. *obovata; foliis* minoribus, obovatis vel suborbicularibus, basi acutis; *racemis* pauci- sæpe 1-floris.—*S. obovata,* Wight & Gardn. MSS. C.P. 1819.

Var. δ. *cucullata; foliis* majoribus, valde coriaceis, oblongis vel obovatis, utrinque obtusis, ad marginem cucullato-revolutis, superne prominentim, subtus inconspicue venosis; *petiolo* brevi, crasso; *racemis* ut in var. *a*.—C.P. 2835.

HAB. Central Province, at an elevation of 5000 to 8000 feet.

A very variable plant, and perhaps var. β, in which the leaves frequently reach to seven inches in length and three inches in width, is to be considered the most typical form of the species. In var. α the racemes sometimes become branchlike, the bracts being converted into leaves, and thus it approaches var. γ, in which the leaves of a branch often bear each a single stalked flower in its axil. The leaves in var. γ show not uncommonly a disposition to a verticillate arrangement. Var. δ has, at first sight, a very distinct appearance, but the peculiar form of its leaves proves it to be in an abnormal state, arising probably from certain conditions of moisture and exposure.

7. **S. hirsuta,** Wight and Gardn. MSS.; arborea; *ramulis* plus minus hispidis; *foliis* membranaceis, creberrime venosis, oblongis, brevi-acuminatis, basi rotundatis, serrulatis, superne glabris, subtus ad costam *petiolo*que hispidulis; *racemis* folio brevioribus, pilosis; *floribus* inferioribus brevi-pedicellatis, superioribus sessilibus; *bracteis bracteolis*que sæpius externe pilosis; *calyce* glabro vel rarius lobis externis pilosis; *baccis* oblongis.—C.P. 368.

Var. β. *minor; foliis* brevioribus, ovatis, acutis; *petiolo* longiore quam in var. *a*.—C.P. 273, 2204.

HAB. Central Province, at an elevation of 5000 to 8000 feet.

Folia 1–3½ poll. longa, ½–1½ poll. lata; *petiolo* 2 lin. (var. β 3 lin.) longo. *Baccæ* ½ poll. longæ.

This species would seem to be very nearly allied to *S. Hamiltoniana,* Wall., A. DC. l. c. p. 254, and to *S. foliosa,* Wight, Ic. t. 1234.

8. **S. elegans,** Thw.; arborea; *ramulis* teretibus, plus minus rufo- vel testaceo-tomentosis; *foliis* membranaceis, creberrime venosis, oblongis vel ovatis, acute acuminatis, subintegris vel obscure serrulatis,

Digitized by Google

superne glabris vel basi ad costam pilosis, subtus *petiolo*que plus minus pilosis, basi rotundatis vel subacutis; *racemis* folio brevioribus, pilosis; *bracteis bracteolis*que externe pilosis; *calyce* glabro, lobis ciliolatis; *baccis* oblongis, subampulliformibus.—C.P. 23.

Var. β. *angustata; ramulis* tomento fulvo parcius tectis; *foliis* angustioribus, longius acuminatis.—C.P. 78, 155.

HAB. Central Province, at an elevation of 5000 to 7000 feet.

Folia 1–3½ poll. longa, ½–1½ poll. lata; *petiolo* 1½–2 lin. longo. *Baccæ* 5 lin. longæ.

Closely allied to and resembling the preceding species, and I have sometimes felt disposed to regard them as varieties, but the different character of the pubescence, and the more acumiuated leaves of the present plant, are perhaps sufficient to warrant their being kept distinct.

9. **S. hispidula,** Thw.; arborea; *ramulis* subteretibus, parum angulosis, plus minus hispidis; *foliis* membranaceis, creberrime venosis, integris vel obscure denticulatis, obovatis vel oblongis, abrupte breviacuminatis, basi rotundatis, subcordatis vel rarius subacutis, superne pilosulis vel glabris, subtus *petiolo*que pilosis; *racemis* folio brevioribus, hispidis; *floribus* brevi-pedicellatis; *bracteis, bracteolis, calyce*que externe pilosis; *baccis* subcylindricis, pilosis.—C.P. 407.

HAB. Ambagamowa and Saffragam Districts, at an elevation of 3000 to 5000 feet.

Folia 2½–7 poll. longa, 1½–3½ poll. lata; *petiolo* 2–4 lin. longo. *Baccæ* pilosæ, 5–6 lin. longæ.

The entire leaves, of a larger size and different shape, and the hairy calyx of the present plant, are the principal characters to distinguish it from *S. hirsuta*, W. & G.

10. **S. jucunda,** Thw.; arborea; *ramulis* teretibus, fulvo-tomentosis; *foliis* membranaceis vel subcoriaceis, integris vel obscure distanter denticulatis, longiuscule acuminatis, basi rotundatis, superne pilosulis vel glabris, subtus creberrime venosis et, cum *petiolo*, tomentosis; *racemis* folio brevioribus, cum *bracteis, bracteolis calyce*que externe, tomentosis; *floribus* brevi-pedicellatis; *baccis* subcylindricis, pilosis.—C.P. 2435, 3454.

HAB. Deltotte and Saffragam, at an elevation of 3000 to 4000 feet.

Folia 2½–6 poll. longa, 1–2 poll. lata; *petiolo* 2–3 lin. longo. *Baccæ* 6–7 lin. longæ.

Differs from the preceding in its more acuminated leaves and in the character of the pubescence. From *S. pulchra*, Wight, Ic. t. 1230, to which it bears a close resemblance, the entire leaves of the present plant seem sufficient to distinguish it.

11. **S. acuta,** Thw.; arborea; *foliis* subcoriaceis, oblongo-lanceolatis, acuminatis, utrinque acutis, superne glabris, lævibus, ad costam canaliculatis, subtus venosis, costa venisque primariis, cum *petiolo*, adpresse pilosulis; *racemis* petiolo subæquilongis vel 2–3-plo longioribus, puberulis; *pedicellis* calyce brevioribus; *calyce* tubo puberulo, lobis rotundatis, subglabris; *baccis* longiuscule sub-ampulliformibus, subglabris.—C.P. 2681.

HAB. Saffragam District, at an elevation of 2000 feet.

Ramuli teretes, juniores adpresse pilosi. *Folia* 2–5 poll. longa, ¾–1¾ poll. lata; *petiolo* 3–5 lin. longo. *Baccæ* 5–6 lin. longæ.

†† *Folia versus apicem ramuli disposita.*

12. **S. cuneata,** Thw.; arborea; *foliis* subcoriaceis, integris, oblongo-

Digitized by Google

lanceolatis, acutis, basi in petiolum brevem gradatim angustatis, superne glabris, lævibus, ad costam venasque primarias canaliculatis, subtus prominentim venosis, costa venisque, cum petiolo, adpresse pilosis; *racemis* brevibus, tomentosis; *floribus* subsessilibus; *baccis* elongatis; subcylindricis; cum *lobis calycinis*, pilosis.—C.P. 2920.

HAB. Pasdoon Corle, at no great elevation.

Ramuli teretes, juniores dense adpresse pilosi. *Folia* 3–6 poll. longa, ¾–1½ poll. lata; *petiolo* 2–3 lin. longo. *Baccæ* 6–7 lin. longæ.

The different arrangement of the leaves, as well as the subsessile flowers of the present species, sufficiently distinguish it from the preceding, to which it bears very considerable general resemblance.

13. **S. cordifolia,** Thw.; arborea; *foliis* glabris, subcoriaceis obovatis, obtusis vel brevissime acuminatis, versus basin angustatis, auriculato-cordatis, creberrime venosis, glanduloso-denticulatis, brevi-petiolatis; *racemis* tomentosis, folio brevioribus; *bracteis bracteolis*que majusculis, externe tomentosis; *calyce* tubo glabro, lobis externe tomentosis.—C.P. 271.

HAB. Central Province, at an elevation of 6000 to 7000 feet.

Folia 3–6 poll. longa, 1¾–3½ poll. lata; *petiolo* 1–2 lin. longo. *Baccæ* oblongæ, glabræ, calycis lobis tomentosis coronatæ.

14. **S. marginalis,** Thw.; arborea; *ramulis* teretibus et, cum *petiolis racemis*que, dense ferrugineo-tomentosis; *foliis* coriaceis, integris, oblongis, abrupte et brevissime acuminatis, basi subacutis, superne glabris, ad marginem parum incrassatum tomentosis, ad costam basi tomentosam canaliculatis, subtus creberrime prominenti-venosis tomentosisque; *calyce* tomentoso.—C.P. 2688.

HAB. Ambagamowa District.

Folia 3½–7 poll. longa, 1¾–3½ lata; *petiolo* 3–5 lin. longo.

††† *Folia ad summum apicem ramuli subverticillata.*

15. **S. apicalis,** Thw.; subarborea, erecta, parce ramosa; *ramulis* teretibus; *foliis* majusculis, membranaceis, subintegris, minute denticulatis, creberrime venosis, oblongo-lanceolatis, acutis; *racemis* folio multum brevioribus, axillaribus et sæpe in axillis squamarum ramuli delapsarum, hirsutis; *floribus* subsessilibus; *bracteis, bracteolis calyce*que externe pilosis; *baccis* oblongis, pilosis.

Var. *α. strigosa; ramulis* strigosis; *foliis* basi acutis vel subacutis, costa petioloque strigosis.—C.P. 438.

Var. *β. glabrifolia; ramulis* glabris; *foliis* majoribus, glabris, a supra-medio versus basin gradatim angustatis, basi abrupte obtusis.—C.P. 2933.

HAB. Var. *α*. Reigam Corle. Var. *β*. In the Singhe-rajah Forest, between Ratnapoora and Galle, in wet places, at no great elevation.

Folia 5–15 poll. longa, 1½–5½ poll. lata; *petiolo* 2–3 lin. longo. *Baccæ* 6–7 lin. longæ.

16. **S. coronata,** Thw.; arborea; *ramulis* teretibus, ferrugineo-tomentosis; *foliis* coriaceis, oblongis, utrinque acutis, serrulatis, creberrime venosis, superne glabris, subtus *petiolo*que tomentosis; *racemis* in axillis squamarum ramuli delapsarum, tomentosis, folio multum brevioribus; *floribus* subconfertis, sessilibus; *bracteis, bracteolis calyce*que externe pilosis; *baccis* ovoideis, pilosis.—C.P. 127.

Digitized by Google

HAB. Central Province, at an elevation of 2000 to 4000 feet.

Folia 5–9 poll. longa, 2–4 poll. lata; *petiolo* 2–4 lin. longo. *Baccæ* 4–5 lin. longæ.

XCIX. ANCISTROCLADEÆ.

(Planchon, Ann. des Sc. Nat. (Ser. 3) xiii. p. 316.—Walp. Ann. ii. p. 175.)

1. ANCISTROCLADUS, Wall.

(Thw. in Linn. Soc. Trans. xxi. p. 225.)

Semen copiose albuminosum, cerebriformi-ruminatum. *Embryonis radicula* cylindrica, *cotyledones* breves, subfoliacei, divergentes.

1. **A. Vahlii,** Arn. Pug. 7 (325); Planch. l. c. p. 317; Walp. l. c.; Thw. l. c. t. 24.—C.P. 1600.

HAB. Central and southern parts of the island, up to an elevation of 2000 feet. Nom. vulg. "Gona-wel," "Gonapittan-wel."

C. OLEACEÆ.

1. OLEA, Tourn.

1. **O. glandulifera,** Wall. (A. DC. Prod. viii. p. 285; Wight, Ic. t. 1238.)—C.P. 2481.

HAB. Central Province, at an elevation of 2000 to 4000 feet.

2. **O. Gardneri,** Thw.; glabra; *foliis* oppositis, versus apicem ramuli aggregatis, coriaceis, integris, ovatis vel oblongis, plus minus acuminatis vel rotundatis, parce venosis, basi acutis; *cymis* pedunculatis, 3–9-floris, rarius plurifloris, axillaribus et infra folia secus ramulum sparsis; *pedicellis* flore subæquilongis; *corolla* campanulata, ad medium 4-partita, lobis rotundatis.—*Notelæa Zeylanica,* Gardn. MSS.—C.P. 275, (627, 1821.)

HAB. Central Province, at an elevation of 5000 to 8000 feet.

Arbor 10–12-pedalis. *Folia* 1–2½ poll. longa, ½–1½ poll. lata; *petiolo* 2–3 lin. longo. *Calyx* acute 4-lobus. *Corolla* albida, 1 lin. longa. *Stamina* inclusa. *Nuculania* rotundata, pisi magnitudine, putamine tenui.

2. LIGUSTRUM, Tourn.

1. **L. robustum,** Bl. Mus. Bot. Lugd.-Bat. i. p. 313.—*Visania robusta,* A. DC. Prod. viii. p. 289, cum syn.—C.P. 475.

HAB. Central Province, up to an elevation of 5000 feet; common in the Hapootelle District.

3. CHIONANTHUS, Linn.

(Blume, Mus. Bot. Lugd.-Bat. i. p. 317.)

1. **C. Zeylanica,** Willd. i. p. 47. *Linociera purpurea,* Vahl; A. DC. Prod. viii. p. 297, cum syn. *L. dichotoma,* Wall. A. DC. l. c.—C.P. 1818.

Digitized by Google

HAB. Abundant in the hotter parts of the island. Nom. vulg. "Gherriatta-gass."

Corolla alba, siccitate subpurpurascens.

As remarked by Blume, there seems to be scarcely sufficient ground for separating *Linociera* as a genus distinct from *Chionanthus*. Of *Chion. cotinifolia*, Willd., founded on Plukenet's description, quoted by Burmann in Thes. Zeyl. p. 31, I know nothing, nor am I acquainted with any species of this genus, indigenous to Ceylon, which has the under side of its leaves villous.

2. **C. albidiflora,** Thw.; *foliis* subcoriaceis, oblongis, abrupte rostrato-acuminatis, paucissime venosis, basi acutis; *cymis* axillaribus, subracemoideis, paucifloris, folio multum brevioribus, glabris; *bracteis* minutissime pilosulis; *floribus* brevi-pedicellatis; *calyce* glabro, lobis rotundatis, subacutis; *petalis* elongatulis, canaliculato-linearibus; *nuculaniis* obovoideis, apiculatis, glabris, putamine crustaceo.—C.P. 472.

HAB. Not uncommon at an elevation of 1000 to 3000 feet. Nom. vulg. "Taccada-gass."

Arbor parva. *Folia* 2½–5 poll. longa, ¾–1¾ poll. lata; *petiolo* 2 lin. longo. *Petala* 3 lin. longa, pallide flava. *Nuculania* 6 lin. longa, purpurea.

This may possibly be a variety of *Linociera Malabarica*, Wall., Wight, Ic. t. 1246, which it very much resembles, but the leaves of that species are represented with a shorter acumination, and the flowers are described as sessile, with the pedicels and calyces hairy, in all which respects it differs from the present plant.

3. **C. leprocarpa,** Thw.; *foliis* subcoriaceis, glabris, oblongis, acuminatis, subeveniis, basi acutis; *cymis* axillaribus, racemoideis, paucifloris, folio multum brevioribus, minutissime glanduloso-pilosulis; *floribus* brevi-pedicellatis; *calyce* lobis latis, subtruncatis, ciliatis; *petalis* (immaturis) margine involutis; *nuculaniis* ovoideis, parce leprosis, putamine lignoso-chartaceo.—C.P. 2475.

HAB. Central Province, at an elevation of 3000 to 4000 feet; rather rare.

Arbor mediocris. *Folia* 2½–5½ poll. longa, 1–1¾ poll. lata; *petiolo* 2–3 lin. longo. *Nuculania* purpurea, 1 poll. longa, 6–7 lin. lata.

4. **C. rostrata,** Thw.; *foliis* subcoriaceis, glabris, oblongis, longiuscule rostrato-acuminatis, basi acutis; *cymis* axillaribus, racemoideis, brevibus, paucifloris, minutissime pilosulis; *floribus* brevi-pedicellatis; *calyce* lobis rotundatis, ciliatis; *nuculaniis* glabris, subfusiformibus, putamine lignoso-chartaceo.—C.P. 3472.

HAB. Hinidoon Corle.

Folia 2½–4 poll. longa, ¾–1¼ poll. lata; *petiolo* 3–3½ lin. longo. *Nuculania* 14 lin. longa, 6 lin. lata.

CI. JASMINACEÆ.

1. JASMINUM, Tourn.

(Nom. vulg. "Pitcha.")

Sect. 1. *Unifoliata*, A. DC. Prod. viii. p. 301.

1. **J. Sambac,** Ait. (A. DC. l. c. var. *a*, cum syn.; Wight, Ic. t. 704.) —C.P. 1812.

HAB. Galle, *Gardner;* Batticaloa.

Digitized by Google

2. **J. angustifolium,** Vahl, (A. DC. l. c. p. 303, cum syn.; Wight, Ic. t. 698.)—C.P. 1807.

HAB. Very abundant in the hot, drier parts of the island, and very variable in the shape of its leaves.

3. **J. rigidum,** Zenk. (A. DC. l. c. p. 305; Wight, Ic. t. 1247, cum syn. seq.) *J. myrtophyllum,* Zenk.; A. DC. l. c. p. 304. *J. tetraphis,* Wight & Gardn. in Calc. Journ. of Nat. Hist. v. 27. p. 55.—C.P. 1809.

HAB. Hot, drier parts of the island.

Ramuli puberuli.

4. **J. auriculatum,** Vahl, (A. DC. l. c. p. 309, cum syn.; Wight, Ic. t. 700.)—C.P. 1810.

HAB. Very abundant in the warmer parts of the island.

Obs. *Jasm. laurifolium,* Roxb., occurs in gardens, but I have never found it in a wild state.

Sect. 2. *Trifoliolata,* A. DC.

5. **J. flexile,** Vahl, (A. DC. l. c. p. 310; Wight, Ic. t. 1253; Burm. Thes. Zeyl. p. 127. t. 58. fig. 1.)—C.P. 724 (1814).

HAB. Not uncommon, up to an elevation of 3000 feet.

Foliola oblonga vel lanceolata, acuminata, basi rotundata vel acuta.

Sect. 3. *Alternifolia,* A. DC.

6. **J. humile,** Linn. (A. DC. l. c. p. 313.) *J. revoluti,* Sims, var. β; A. DC. l. c. p. 312; Wight, Ic. t. 1258, cum syn. seq. *J. bignoniaceum,* Wall., et *J. aureum,* Don.—C.P. 1811.

HAB. Elephant Plains, *Gardner;* below Horton Plains, at an elevation of 6000 feet.

2. NYCTANTHES, Juss.

1. **N. arbor-tristis,** Linn. (A. DC. Prod. viii. p. 314, cum syn.)—C.P. 1808.

HAB. Jaffna, *Gardner.* Not uncommon in native gardens and near Buddhist temples, but hardly truly wild. Nom. vulg. "Saipaala-gass."

A colouring matter is obtained from the corolla-tube of this plant, which is employed by the native priests for dyeing cloth yellow.

CII. SALVADORACEÆ.

(Planchon in Ann. des Sc. Nat. (Ser. 3) x. p. 189).

1. SALVADORA, Linn.

1. **S. Wightiana,** Planch. MSS. in Herb. Hook. *S. Indica,* Wight, Illust. ii. p. 229. t. 181 (? Royle). *S. Persica,* Roxb. Fl. Ind. i. p. 389; Decaisne in Jacq. Voy. vol. iv. p. 140, adn.; Walp. Ann. i. p. 547 (non *S. Persica,* Linn.).—C.P. 2267.

HAB. Near the seacoast, towards the north of the island.

Digitized by Google

2. AZIMA, Lam.

(Wight, Illust. ii. p. 156.)

1. **A. tetracantha,** Lam. (Walp. Ann. iii. p. 16, cum syn.; Wight, l. c. p. 157. t. 153.)—C.P. 2216.
HAB. Hot, drier parts of the island.

CIII. APOCYNACEÆ.

1. WILLUGHBEIA, Roxb.

1. **W. Ceylanica.** — *Chilocarpus Ceylanicus*, Wight, Ic. t. 1288. *Winchia cirrhifera*, Gardner, MSS.—C.P. 1829.
HAB. Not uncommon in forests, up to an elevation of 4000 feet.

Fructus carnosus, subsphæricus vel parum pyriformis, flavo-rubescens, 4–5 poll. in diam. *Semina* oblonga, compressa, ¾ poll. longa, ½ poll. lata, *testa* tenui, membranacea, *cotyledonibus* carnosis, rufescentibus, *radicula* parva.
The large, handsome fruit of this species is a favourite food of monkeys.

2. CARISSA, Linn.

(Nom. vulg. "Karanda-gass.")

1. **C. Carandas,** Linn. (A. DC. Prod. viii. p. 332, cum syn.; Wight, Ic. t. 426.)—C.P. 1823.
HAB. Jaffna, *Gardner;* Kornegalle.

2. **C. diffusa,** Roxb. (A. DC. l. c.; Wight, Ic. t. 427.)—C.P. 1822.
HAB. Very abundant in the hotter parts of the island.

3. OPHIOXYLON, Linn.

1. **O. serpentinum,** Willd. (A. DC. Prod. viii. p. 342, cum syn.; Wight, Ic. t. 849.)—C.P. 1834.
HAB. Common up to an elevation of 2000 feet. Nom. vulg. "Ai-kawaireya."

2. **O. densiflorum,** Thw.—*O. Ceylanicum*, Wight, Ic. t. 1291. *O. Neilgherrense*, Wight, Ic. t. 1292. *Tabernæmontana densiflora*, Wall. Edw. Bot. Reg. v. 15. t. 1273; A. DC. l. c. p. 373.—C.P. 1836.
HAB. Central Province, up to an elevation of 6000 feet.

4. ALYXIA, R. Br.

1. **A. Ceylanica,** Wight, Ic. t. 1293.—C.P. 1835.
HAB. Ambagamowa District, at an elevation of 1000 to 2000 feet.
Flores flavidi. *Carpella* matura, coccinea, 2–7-sperma.

5. HUNTERIA, Roxb.

(Nom. vulg. "Maddeya-gass.")

1. **H. Zeylanica,** Gardn. MSS. — *Cameraria Zeylanica,* Retz;

Digitized by Google

Willd.; A. DC. Prod. viii. p. 389, cum syn.—An *Hunteria corymbosa*, Roxb. var.?—C.P. 1827.

HAB. Warmer parts of the island; common.

Flores flavidi. *Carpella* oblonga, rostrato-acuminata, stipitata, pollicaria.

The wood of this species has a very fine, close grain, resembling that of the Box-tree.

2. ? **H. Roxburghiana,** Wight, Ic. t. 1294.—C.P. 2518.

HAB. Central Province, in the Maturatte and Badulla Districts.

Folia lineari-lanceolata, obtuse acuminata, basi acuta, superne nitida, subtus opaca pallidioraque, venis primariis parallelis parum conspicuis, 2–6 poll. longa, ½–1 poll. lata, *petiolo* 3–5 lin. longo. *Flores* flavidi. *Carpella* (immatura) parce acuminata.

This would seem to have the leaves narrower and less numerously and strongly veined than Dr. Wight's plant, as represented in his figure, but in other respects there appears to be great similarity.

6. CERBERA, Linn.

1. **C. Odollam,** Gærtn. (A. DC. Prod. viii. p. 353, cum syn.; Wight, Ic. t. 441.)—C.P. 1832.

HAB. Hotter parts of the island, especially near the sea. Nom. vulg. "Gōng-kadooroo-gass."

7. OCHROSIA, Juss.

1. **O. Borbonica,** Gm. (A. DC. Prod. viii. p. 356, cum syn.)—*O.? platyspermos*, A. DC. l. c. cum syn. *Cerbera parviflora*, Moon's Cat. p. 19. *An* Willd. i. p. 1222?—C.P. 1833.

HAB. Caltura, and other places near the sea. Nom. vulg. "Moodoo-kadooroo-gass."

8. TABERNÆMONTANA, Plum.

1. **T. dichotoma,** Roxb. (A. DC. Prod. viii. p. 366, cum syn.; Wight, Ic. t. 433.) *Cerbera Manghas*, Linn. (*partim.*) *Manghas lactescens*, etc., Burm. Thes. Zeyl. 151. t. 70. f. 1.—C.P. 2834.

HAB. Very common in the warmer parts of the island. Nom. vulg. "Diwi-kadooroo-gass."

Semina matura in pulpa sanguinea nidulantia.

This is no doubt the plant intended by Burmann, judging from his description of the fruit, though he has given the native name of another species.

9. VALLARIS, Burm.

1. **V. Pergulana,** Burm. (A. DC. Prod. viii. p. 399, cum syn.; Wight, Ic. t. 429.)—C.P. 2515.

HAB. Colombo, *Mr. W. Ferguson.*

2. **V. dichotoma,** Wall. (A. DC. l. c. p. 400; Wight, Ic. t. 438, cum syn.)—C.P. 2519.

HAB. Hot, drier parts of the island, at no great elevation.

The smaller foliage, and a slight difference in the shape of the corolla of the present plant, give it a somewhat distinct appearance from the preceding, but the two are so closely allied that it would perhaps be quite safe to consider them as mere

Digitized by Google

varieties of one species. The flowers of *V. Pergulana* have a disagreeable odour, but I do not remember whether the same character applies to those of *V. dichotoma.* I can discover no difference in the nectaries of the two plants.

10. HELIGME, Blume, Endl.

Parsonsiæ Sect. 2, A. DC.

1. **H. spiralis.**—*H. Rheedii,* Wight, Ic. t. 1303, cum syn. *Parsonsia spiralis,* Wallich; A. DC. Prod. viii. p. 402.—C.P. 1862.
HAB. Very abundant, up to an elevation of 3000 feet.

Flores virides, externe rufescentes.

11. WRIGHTIA, R. Br.

1. **W. tomentosa,** R. et Sch. (A. DC. Prod. viii. p. 404, cum syn.; Wight, Ic. t. 443.)—C.P. 2691.
HAB. Central Province; not very uncommon.

Corolla flavida, rubro-tincta. *Corona* coccinea, breve et obtuse 5-loba, lobis subcrenatis. *Flores* siccitate cyaneo-nigrescentes.

2. ? **W. Rothii,** G. Don, (A. DC. l. c. p. 406, cum syn.; Wight, Ic. t. 1319.) Var. β *puberula.*—C.P. 1837.
HAB. Damboul, *Gardner.*

Ramuli cum *foliis junioribus* puberuli. *Antheræ* dorso pilosæ.
This will probably prove to be distinct from *W. Rothii,* but my specimen is not sufficiently perfect to justify a new species being established upon it.

3. **W. angustifolia,** Thw.; *foliis* glabris, membranaceis, lineari-lanceolatis, obtusis, basi acutis, brevi-petiolatis; *cymis* delicatulis; *floribus* minute pubescentibus; *corona* glabra, 5-partita; *lobis* linearibus, antheris oppositis æquilongisque, fere ad medium bifurcatis, segmentis simplicibus vel ad apicem parce laciniatis.—C.P. 1839.
HAB. Damboul and Trincomale, *Gardner.*

Folia 1½–4 poll. longa, ½–¾ poll. lata; *petiolo* circiter 1 lin. longo. *Pedicelli* tenues, semipollicares. *Calyx* ¼ lin. longus, lobis rotundatis, subacutis, ciliatis, corollæ tubo brevioribus. *Corollæ* lobi lineari-oblongi, obtusi, 3 lin. longi. *Antheræ* dorso parum pilosæ.
This much resembles *W. tinctoria,* R. Br. (C.P. 1838, 2385), but its much narrower and more membranaceous leaves, and very differently-shaped corona, seem sufficiently to distinguish it from that species. Of the latter I have only garden specimens in the herbarium, and I have no evidence of its having been detected wild in the island, though it may be expected to occur so in the northern districts.

4. **W. Zeylanica,** R. Br. (A. DC. l. c. p. 407, cum syn.)—*W. antidysenterica,* R. Br.; A. DC. l. c. cum syn.—C.P. 1825.
HAB. Common in the south of the island. Nom. vulg. "Sooddoo-idda."

Corolla alba, tubo glabro, lobis puberulis. *Corona* alba, antheris longior, pluri-laciniata.

12. ALSTONIA, R. Br.

1. **A. scholaris,** R. Br. (A. DC. Prod. viii. p. 408, cum syn.; Wight, Ic. t. 422.)—C.P. 1840.

Digitized by Google

HAB. Common up to an elevation of 3000 feet. Nom. vulg. "Rookattana-gass."

The light wood of this tree is employed for making coffins.

13. HOLARRHENA, R. Br.

1. **H. mitis,** R. Br. (A. DC. Prod. viii. p. 413.)—C.P. 756.

HAB. Not uncommon, up to an elevation of 1500 feet. Nom. vulg. "Kirri-walla-gass."

Arbor mediocris. *Cymæ* folio breviores, 5–12-floræ. *Corolla* alba.

The wood of this tree is light in weight, of a pale colour, and fine, close grain, and is used for inlaying cabinet-work.

14. CHONEMORPHA, G. Don.

1. **C. macrophylla,** G. Don, (A. DC. Prod. viii. p. 430, cum syn.; Wight, Ic. t. 432.)—C.P. 2467.

HAB. Not very uncommon, up to an elevation of 2000 feet.

15. AGANOSMA, G. Don.

1. **A. elegans,** G. Don, (A. DC. Prod. viii. p. 433, cum syn.; Wight, Ic. t. 1304.)—C.P. 1850.

HAB. Hot, drier parts of the island, not uncommon.

Folliculi teretes, 5–9 poll. longi, 2½ lin. lati, testaceo-pilosi, denique subglabri. *Semina* glabra, lineari-oblonga, nigra, 7 lin. longa, 1½ lin. lata, brevi-rostrata, longe comosa.

16. CLEGHORNIA, Wight, Walpers.

1. **C. acuminata,** Wight, Ic. t. 1310.—*C. cymosa,* Wight, Ic. t. 1312. —C.P. 1861.

HAB. Common in the Central Province, at an elevation of 2000 to 5000 feet.

The two forms of this plant, described by Dr. Wight under two specific names, are connected by intermediate ones, and have, therefore, no claim to be kept distinct.

17. ICHNOCARPUS, R. Br.

1. **I. frutescens,** R. Br. (A. DC. Prod. viii. p. 435, cum syn.; Wight, Ic. t. 430.)—C.P. 1863.

HAB. Common up to an elevation of 3000 feet. Nom. vulg. "Kirri-wel."

18. ANODENDRON, A. DC.

1. **A. paniculatum,** A. DC. Prod. viii. p. 444, cum syn.; Wight, Ic. t. 396.—C.P. 1843.

HAB. Common up to an elevation of 2000 feet. Nom. vulg. "Dool."

The fibre of the stem is very fine and strong, and is much used by the Cinghalese.

2. **A. rhinosporum,** Thw.; glabra; *foliis* subcoriaceis, oblongis, utrinque plus minus abrupte angustatis, obtusis, subtus pallidioribus,

Digitized by Google

inconspicue venosis; *cymis* terminalibus, delicatulis, valde divaricato-ramosis; *pedicellis* flore longioribus; *seminibus* rostro gracili æquilongo ornatis.—C.P. 2579.

HAB. Ambagamowa and Maturatte Districts; not common.

Folia 2–4 poll. longa, ½–1½ poll. lata; *petiolo* 3–5 lin. longo. *Calyx* ½ lin. longus, lobis ovatis, subacutis. *Corolla* flava, 3 lin. in exp. *Antheræ* sessiles. *Folliculi* 3–5 poll. longi. *Semina* glabra, minute rugulosa (rostr. excl.), 6 lin. longa ad apicem copiose comosa.

Vinca rosea, Linn., is become quite naturalized in the neighbourhood of Colombo and other places. *Plumeria acutifolia*, Poir., is also widely distributed, especially about Buddhist temples.

CIV. ASCLEPIADACEÆ.

1. HEMIDESMUS, R. Br.

1. **H. Indicus,** R. Br. (Decaisne in DC. Prod. viii. p. 494, cum syn.; Wight, Ic. t. 594.)—C.P. 183 (1865).

HAB. Very abundant in the warmer parts of the island. Nom. vulg. "Eremoosoo."

The root of this plant (Indian Sarsaparilla) is much used medicinally by the Cinghalese.

2. CRYPTOLEPIS, R. Br.

(Blume, Mus. Bot. Lugd.-Bat. i. p. 146.)

1. **C. Buchanani,** Rœm. et Sch. (Walp. Rep. vi. p. 474, cum syn.; Wight, Ic. t. 494.)—C.P. 2548.

HAB. Common, up to an elevation of 3000 feet.

3. SECAMONE, R. Br.

1. **S. emetica,** R. Br. (Decaisne in DC. Prod. viii. p. 501, cum syn.; Wight, Ic. t. 1283.)—C.P. 1851.

HAB. Not uncommon in the warmer parts of the island.

4. TOXOCARPUS, W. et A.

1. **T. Kleinii,** W. et A. (Decaisne in DC. Prod. viii. p. 505; Wight, Ic. t. 886.)—C.P. 2578.

HAB. Maturatte District, at an elevation of 3000 feet; not common.

5. CYNOCTONUM, Er. Mey., Decaisne.

1. **C. pauciflorum,** Decaisne in DC. Prod. viii. p. 528, cum syn.—*Cynanchum pauciflorum*, R. Br.; Wight, Ic. t. 354. An *C. pedunculatum*, Thunb. DC. Prod. viii. p. 548.—C.P. 2466.

HAB. Very common in the Central Province. Nom. vulg. "Kangkoombala."

The Cinghalese eat the young leaves of this and of many other plants of this Natural Family, in their curries.

Digitized by Google

6. CALOTROPIS, R. Br.

1. **C. gigantea,** R. Br. (Decaisne in DC. Prod. viii. p. 535, cum syn.; Wight, Illust. ii. t. 155.)—C.P. 1831.

HAB. Hot, drier parts of the island. Nom. vulg. "Warra."

The fibre of this plant is very fine and strong. The milky juice is employed medicinally.

7. PENTATROPIS, R. Br.

1. **P. microphylla,** W. et A. (Decaisne in DC. Prod. viii. p. 536, cum syn.; Wight, Ic. t. 352.)—An *Cynanchum acuminatum*, Thunb. DC. l. c. p. 548?—C.P. 1853.

HAB. Not uncommon in the warmer parts of the island.

8. SARCOSTEMMA, R. Br.

1. **S. Brunoniana,** W. et A. (Decaisne in DC. Prod. viii. p. 538; Wight, Ic. t. 1282.)—C.P. 1830.

HAB. Hot, drier parts of the island; common. Nom. vulg. "Moowa-keeriya."

The stems are used medicinally.

9. OXYSTELMA, R. Br.

1. **O. esculentum,** R. Br. (Decaisne in DC. Prod. viii. p. 543, cum syn.)—C.P. 2837.

HAB. Hot, drier parts of the island.

10. DÆMIA, R. Br.

1. **D. extensa,** R. Br. (Decaisne in DC. Prod. viii. p. 544, cum syn.; Wight, Ic. t. 596.)—*Cynanchum echinatum*, Thunb. DC. l. c. p. 459.—C.P. 1841.

HAB. Not uncommon in the warmer parts of the island.

11. TYLOPHORA, R. Br.

1. **T. carnosa,** Wall. (Decaisne in DC. Prod. viii. p. 607; Wight, Ic. t. 351.)—C.P. 1852.

HAB. Hotter parts of the island.

2. **T. cordifolia,** Thw.; volubilis; *ramulis* pilosulis; *foliis* glabris, cordatis, mucronatis, basi laminæ parce glandulosis; *petiolo* superne pilosulo; *pedunculis* 1–2-floris, folio subæquilongis, cum *floribus* glabris; *coronæ stamineæ* radiatæ *foliolis* oblongis, truncatis, carnosis, postice superneque parum productis et ibi lateraliter compressis; *gynostegium* convexum umbilicatum subæquantibus.—C.P. 717.

HAB. Common in the Central Province.

Folia 3–13 lin. longa, 2–9 lin. lata; *petiolo* 1–1½ lin. longo. *Calyx* parvus, lobis ovatis, subacutis. *Corolla* fusco-purpurea, 4 lin. in exp., lobis ovatis, subacutis. *Corona staminea* 1 lin. lata, flavida. *Folliculi* sæpius abortu solitarii, attenuati, glabri, bipollicares.

Digitized by Google

3. **T. micrantha,** Thw.—*T. Zeylanica,* Decaisne, l. c. p. 608. *Cynanchum micranthum,* Thunb. DC. l. c. p. 548.—C.P. 2517.
HAB. Central Province, at an elevation of 2000 to 4000 feet.

Folia 2½–5 poll. longa, 1¼–3 poll. lata; *petiolo* ½–1 poll. longo. *Folliculi* elegantuli, glabri, 5 poll. longi.

4. **T. fasciculata,** Ham. (DC. l. c. p. 608; Wight, Ic. t. 848.)—C.P. 369.
HAB. Not uncommon in the Central Province, at an elevation of 4000 to 7000 feet.

Flores flavidi, purpureo-tincti, vel omnino fusco-purpurei.

5. **T. asthmatica,** W. et A. (DC. l. c. p. 611, cum syn.; Wight, Ic. t. 1277.)
Var. α. *pubescens,* DC. l. c.—C.P. 1857 (1858).
Var. β. *glabra,* DC. l. c.—An *Cynanchum flavens,* Thunb. et *C. bracteatum,* Thunb. DC. l. c. p. 549?—C.P. 1849 (1860).
HAB. Very abundant in the warmer parts of the island. Nom. vulg. "Binnooga."

Folia ad apicem petioli sæpe parce glandulosa. *Flores* flavidi, plus minus purpureo-tincti.

A very variable plant as regards the shape of the leaves and the amount of pubescence. The natives employ the roots medicinally.

12. COSMOSTIGMA, Wight.

1. **C. racemosum,** Wight (DC. in DC. Prod. viii. p. 613, cum syn.; Wight, Ic. t, 591.)—*C. acuminatum,* Wight, Ic. t. 1270.—C.P. 1854.
HAB. Warmer parts of the island; common.

13. MARSDENIA, R. Br.

1. **M. tenacissima,** W. et A. (DC. in DC. Prod. viii. p. 616, cum syn.; Wight, Ic. t. 590.)—C.P. 2860.
HAB. Hotter parts of the island; not very common.

14. GYMNEMA, R. Br.

1. **G. sylvestre,** R. Br. (DC. in DC. Prod. viii. p. 621, cum syn.; Wight, Ic. t. 349.)—C.P. 2549.
Var. β. *Decaisneanum.*—*G. Decaisneanum,* Wight, Ic. t. 1271. *G. hirsutum,* DC. l. c. p. 622 ("non W. et A.," Wight, l. c.)—C.P. 1844.
HAB. Not uncommon, up to an elevation of 3000 feet.

2. **G. rotundatum,** Thw.; volubilis; *ramulis junioribus* tomentosis; *foliis* ovato-rotundatis, obtuse acuminatis, superne pilosulis, ad apicem petioli pluri-glandulosis, subtus cum *petiolo* longiusculo brevi-tomentosis; *pedunculis* petiolo duplo brevioribus; *umbellis* geminatis, confertifloris; *stigmate* conico staminibus longiore; *folliculis* attenuatis, glabris.—C.P. 3086.
HAB. Central Province, at an elevation of 3000 feet.

Folia 2–4 poll. longa, 1½–3 poll. lata; *petiolo* ¾–1½ poll. longo. *Pedicelli* flore duplo longiores. *Calycis lobi* oblongo-rotundati, pilosi. *Corolla* flava, calyce duplo longior.

Digitized by Google

3. **G. lactiferum,** R. Br. (DC. l. c. p. 622, cum syn.)—*G. Zeylanicum*, Decaisne, l. c.—C.P. 2580.

Var. β; *foliis* subtus molliter parce pubescentibus.—C.P. 1847.

HAB. Not uncommon, up to an elevation of 3000 feet.

Folliculi (var. α) lanceolati, 3½ poll. longi, ¾ poll. in lat. max., obtusi, sæpius abortu solitarii, juniores ovati vel oblongi.

15. BIDARIA, Endl.

1. **B. pergularioides,** Thw.; volubilis; *ramulis* cum *petiolis*, *pedunculis pedicellis*que pubescentibus; *foliis* subglabris, ellipticis vel oblongis, plus minus acuminatis, basi acutis vel rotundatis, ad apicem petioli glandulosis; *pedunculis* petiolo subæquilongis; *pedicellis* brevibus; *folliculis* lineari-lanceolatis, valde attenuatis, puberulis, denique subglabris.—*Gymnema pergularioides*, Wight et Gardner, MSS.—An *Cynanchum cuspidatum*, Thunb. DC. l. c. p. 548?

Var. α; *corollæ tubo* lobis calycinis 2–3-plo longiore; *folliculis* longiusculis.—C.P. 2671, 2672.

Var. β; *foliis* minoribus, firmioribus; *corollæ tubo* lobis calycinis vix longiore; *folliculis* brevioribus.—C.P. 1848.

Folia 1½–6 (var. β, 1–2) poll. longa, ½–2 poll. (var. β, 3–10 lin.) lata; *petiolo* 2–7 lin. longo. *Pedicelli* corollæ tubo subæquilongi. *Calycis* lobi ovati, subacuti. *Corolla* flava, sæpius plus minus rubro-tincta, 3–4 (var. β, 2–3) lin. in exp., lobis ovato-lanceolatis. *Folliculi* 5–6 (var. β, circiter 3) poll. longi, 3 lin. lati.

This variable species is evidently very closely allied to *B. elegans*, Decaisne.

16. LEPTADENIA, R. Br.

1. **L. reticulata,** W. et A. (Decaisne in DC. Prod. viii. p. 628, cum syn.; Wight, Ic. t. 350.)—An *Cynanchum ovatum*, Thunb. DC. l. c. p. 548?—C.P. 1846.

HAB. Anooradhapoora, *Gardner*.

17. HETEROSTEMMA, W. et A.

1. **H. Tanjorensis,** W. et A. (DC. in DC. Prod. viii. p. 630; Wight, Ic. t. 348.)—C.P. 1856 (1859).

HAB. Central Province, up to an elevation of 4000 feet.

18. DISCHIDIA, R. Br.

1. ? **D. nummularia,** R. Br. (DC. in DC. Prod. viii. p. 632, cum syn.)

I have a drawing, made some years ago, from a plant collected in the island, which is either *D. nummularia* or a species very closely allied to it, but unfortunately the specimen was not preserved, nor is the particular locality in which it was found recorded.

19. HOYA, R. Br.

1. **H. ovalifolia,** W. et A. (Wight, Ic. t. 847.)—C.P. 2670.

HAB. Not very uncommon in the Ambagamowa District, at no great elevation.

Folia ad apicem petioli glandulosa. *Flores* albidi, plus minus rubro-tincti.

Digitized by Google

2. **H. Wightiana,** Thw.; volubilis; *foliis* glabris, carnosis, lineari-lanceolatis, acuminatis, obtusis, basi angustatis; *pedunculis* brevibus, multifloris; *corollæ lobis* ovatis, parce acuminatis, obtusis, minute papillosis; *corona staminea* parum depressa, *foliolis* obovatis, obtusis, interne acutis.—C.P. 2762.

HAB. Central Province, at an elevation of 3000 to 5000 feet.

Folia 1–3 poll. longa, 2–5 lin. lata; *petiolo* purpurascente, 1–3 lin. longo. *Pedicelli* glabri, 6 lin. longi. *Calyx* minutus, glaber. *Corolla* alba, 6–7 lin. in exp. *Corona staminea* purpurea, 2 lin. in exp.

A very beautiful species, bearing considerable resemblance to the figure of Dr. Wight's *H. pauciflora* (*H. parviflora* in desc.) Ic. t. 1269; and its more numerous flowers and obtusely-pointed leaves seem to be the principal points of distinction.

3. **H. viridiflora,** R. Br. (DC. l. c. p. 639; Wight, Ic. t. 586.)—C.P. 1855.

HAB. Common, up to an elevation of 3000 feet. Nom. vulg. "Kirri-angoona."

The leaves of this species are eaten by the Cinghalese.

20. CEROPEGIA, Linn.

1. **C. elegans,** Wall. (Bot. Mag. t. 3015; DC. in DC. Prod. viii. p. 642; Wight, Ic. t. 1265.)—*C. sphenanthera,* W. et A.; DC. l. c. p. 643. *C. Mysorensis,* Wight, Ic. t. 846. *C. Walkeri,* Wight, Ic. t. 1266.—C.P. 738.

HAB. Not uncommon, up to an elevation of 3000 feet.

This and the other species of the genus are very variable as regards the shape and size of the leaves and colour of the flowers, and far from constant in the shape and size of the latter.

2. **C. Gardneri,** Thw.; volubilis, glabra; *foliis* lanceolatis, acuminatis; *pedunculis* petiolo subæquilongis, paucifloris; *calycis lobis* linearibus, acutis; *corolla* ad tubi basim parum inflata, supra medium subito valde ampliata, apice aperte 5-crumenata, margine ciliata; *coronæ stamineæ lobis exterioribus* linearibus, acutis; *interioribus* multo longioribus latioribusque et apice reflexis; *folliculis* longiusculis, teretibus.—C.P. 2838.

HAB. Rambodde, at an elevation of 4000 to 5000 feet, *Gardner.*

Pedicelli pedunculo subæquilongi. *Corolla* albida, purpureo-maculata, circiter 2 poll. longa, 1½ poll. in exp. *Folliculi* (immaturi) 7 poll. longi, 2 lin. lati.

A very pretty species, allied to the preceding, but it can scarcely be a variety of it.

3. **C. Thwaitesii,** Hook. Bot. Mag. t. 4758.—C.P. 1842.

HAB. Central Province; not very common.

This will possibly prove to be a small variety of *C. Decaisneana,* Wight, Ic. t. 1259, to which it is evidently very closely allied.

4. **C. candelabrum,** Linn. (DC. l. c. p. 643, cum syn.)—*C. intermedia,* Wight, Ic. t. 1263.—C.P. 774.

HAB. Hotter parts of the island; not uncommon.

An extremely variable species, and I suspect that several Indian plants, described as distinct species, will be discovered to be mere varieties of it.

Digitized by Google

21. CARALLUMA, R. Br.

1. **C. attenuata**, Wight, Ic. t. 1268.—An *C. adscendens*, R. Br.; DC. in DC. Prod. viii. p. 647, cum syn.?—C.P. 3304.
HAB. On rocky ground at Ooma Oya, on the lower road from Kandy to Badulla, at no great elevation.

My specimens of this plant so much resemble Roxburgh's figure of *S. adscendens* in Pl. Cor. t. 30, that it seems not improbable that the cilia were accidentally absent, or overlooked in the corolla of his specimen.

22. BOUCEROSIA, W. et A.

1. **B. umbellata**, W. et A. (DC. in DC. Prod. viii. p. 648, cum syn.; Wight, Ic. t. 495.)—*B. campanulata*, Wight, Ic. t. 1287.—C.P. 2861.
HAB. Rocks near Kornegalle.

Asclepias curassavica, Linn., is become quite naturalized and distributed throughout the island.

CV. LOGANIACEÆ.

1. MITRASACME, Labill.

1. **M. Indica**, Wight, Ic. t. 1601; Bentham in Linn. Soc. Proc. i. p. 92, cum syn.—C.P. 1677.
HAB. Common in the warmer parts of the island.

2. FAGRÆA, Thunb.

1. **F. Zeylanica**, Thunb. (DC. Prod. ix. p. 29, cum syn.; Blume, Rumphia, t. 78. fig. 2.)—*Solandra oppositifolia*, Moon's Cat. p. 15.
HAB. Central Province, not common. Nom. vulg. "Atambooroo-gass."

2. **F. obovata**, Wall. in Roxb. Fl. Ind. ii. p. 33; DC. l. c.—*F. Malabarica*, Wight, Ic. t. 1317.—C.P. 757.
HAB. Central Province, at an elevation of 2000 to 5000 feet.

This differs from *F. Zeylanica* in its more scandent habit, much shorter flowers, and more oblong fruit; but in other respects they are very closely allied. In both, the *placentæ* are distinct, not, as in the following species, cohering in the centre of the ovary.

3. **F. Gardneri**, Thw.; scandens; *foliis* majusculis, coriaceis, glabris, subeveniis, obovato-cuneatis, apice rotundatis, basi truncatis, brevi-petiolatis; *petiolo* parum stipulaceo; *corolla* late infundibuliformi; *tubo* calyce circiter 3-plo longiore; *placentis* in medio ovarii cohærentibus.—C.P. 1826.
HAB. Hantani, in the Central Province, at an elevation of 3000 to 4000 feet.

The present species has weaker, more scandent branches, than the preceding. Its leaves have a more crowded appearance, and the calyx is larger, with its pair of bracteoles at its immediate base, instead of halfway down the pedicel, as in the preceding. The two plants are, however, very closely allied, and their flowers are very similar in general appearance. The somewhat coriaceous flowers of all three species are of a yellowish-white colour; the fruit is shining and glaucous.

Digitized by Google

3. STRYCHNOS, Linn.

Sect. 1. *Scandentes.*

1. **S. minor,** Blume, (A. DC. Prod. ix. p. 14; Benth. in Journ. Linn. Soc. Bot. i. p. 100.)—C.P. 187.

Var. δ. *parvifolia,* Benth. l. c.—C.P. 341.

HAB. Var. *a.* Warmer parts of the island. Var. δ. Central Province, up to an elevation of 6000 feet.

2. **S. colubrina,** Linn. (A. DC. l. c.; Benth. l. c. p. 101.)—C.P. 2516.

HAB. Hot, drier parts of the island, not uncommon.

Rami juniores parce puberuli, cito glabrati. *Folia* sæpe ad basin sub-5-nervia. *Corollæ lobi* interne versus apicem pilis paucis rigidis erectis ornati.

Distinguished from the preceding by its pentamerous flowers and larger fruit, as indicated by Mr. Bentham. I have never seen the fruit nearly so large as it is represented by Rheede, but have never met with it quite mature. The leaves of the present species are most frequently somewhat 5-nerved at the base, owing to the distinctness of the submarginal nervure.

3. **S. laurina,** Wall. (A. DC. l. c. p. 13; Benth. l. c. p. 102.)—C.P. 3540.

HAB. Galle, Kornegalle, and other of the warmer parts of the island.

Nuculania (immatura) pollicaria.

4. **S. cinnamomifolia,** Thw.; glabra; *cirrhis* simplicibus; *foliis* oblongis, rostrato-acuminatis, obtusis, basi acutis, triplinerviis; *cymis* terminalibus, pedunculatis, trichotomis, folio brevioribus; *corollæ lobis* glabris; *nuculaniis* majusculis, sphæricis, polyspermis.—C.P. 1867.

HAB. Hantani District, at an elevation of 3000 feet. Nom. vulg. "Atta-kirindi-wel."

Folia 2½–4 poll. longa, 1¼–1¾ poll. lata; *petiolo* 2–3 lin. longo. *Cymæ* tomentellæ, ramulos breves terminantes. *Corolla* albida, *tubo* interne infra medium sparse piloso, 4–5 lin. longo, *lobis* 1½ lin. longis. *Nuculania* circiter 3 poll. in diam. *Semina* pollicaria.

This large climbing plant much resembles Blume's figure of *S. Tiente,* Lesch., Rumphia, t. 24, and would seem also to have many characters in common with *S. ovalifolia,* Wall.; but in these latter the inflorescence is axillary, whilst in the present species it terminates the small ramuli, as in *S. nux-vomica.* From the last-named species the present differs in, besides its scandent habit, having narrower, more acuminated leaves, and larger flowers.

Sect. 2. *Arborescentes.*

5. **S. nux-vomica,** Linn. (A. DC. l. c. p. 15, cum syn.)—C.P. 2839.

HAB. Hotter parts of the island. Nom. vulg. "Goda-kadooroo-gass."

Corolla interne infra medium pilosa. *Nuculania* sæpe 1–2-sperma.

6. **S. potatorum,** Linn. f. (A. DC. l. c. cum syn.; Wight, Illust. ii. t. 156.)—C.P. 1866, 3367.

HAB. Hot, drier, and especially the northern parts of the island. Nom. vulg. "Ingini-gass."

4. GÆRTNERA, Lam.

1. **G. rosea,** Thw. (Benth. in Linn. Soc. Proc. i. p. 111.)—C.P. 2673.

Digitized by Google

Hab. Ambagamowa and Saffragam Districts, up to an elevation of 2000 feet.

Frutex glaber, 8–10-pedalis. *Ramuli* bicostati. *Folia* elliptico- vel ovato-lanceolata, longe acuteque acuminata, basi in petiolum brevem angustata, 1¼–3 poll. longa, ½–1¼ poll. lata. *Stipulæ* carinatæ, biaristatæ, in tubum coalitæ. *Flores* terminales, terni, sessiles ad apicem *pedunculi* brevis vel subnulli. *Calyx* tubulosus, 1 lin. longus, irregulariter 4–6-denticulatus. *Corolla* 8–10 lin. longa, externe roseo-purpurea, *lobis* 4, linearibus, tubo multum brevioribus. *Antheræ* 4, oblongæ, subsessiles. *Nuculania* subsphærica, pallide cyanea, 4–5 lin. in diam.

2. **G. Walkeri,** Wight, Illust. ii. t. 156 *b*; Bentham, l. c. (*partim*).—*Sykesia Walkeri*, Arn. Pug. 36, 354; DC. Prod. ix. p. 35.—C.P. 288.

Hab. Central Province, at an elevation of 3000 to 6000 feet.

Frutex 8–10-pedalis. *Ramuli* teretes, glabri. *Folia* 1½–4 poll. longa, ½–1½ poll. lata; *petiolo* 2–5 lin. longo. *Stipulæ* coalitæ, truncatæ vel brevi-acuminatæ et apice bifidæ. *Cymæ* terminales, glabræ, sæpius 5-floræ, folio subæquilongæ. *Nuculania* subsphærica, cyanea.

3. **G. Gardneri,** Thw.; *ramulis* teretibus, minute puberulis; *foliis* glabris, anguste lanceolatis, acute acuminatis, basi acutis, brevi-petiolatis; *stipulis* longe coalitis, parum acuminatis bifidisque; *cymis* puberulis, sæpius 3-floris et folio brevioribus, floribus erectis.—C.P. 346 (363).

Hab. Central Province, at an elevation of 5000 to 7000 feet.

Frutex 8–10-pedalis. *Folia* 1–2½ poll. longa, 2–5 lin. lata. *Flores fructusque* fere ut in præcedente sed parum majores.

The puberulous ramuli and inflorescence, differently-shaped leaves, fewer-flowered cymes, and rather larger flowers and fruit, distinguish this from the preceding species, to which it is very closely allied.

4. **G. ternifolia,** Thw.; *foliis* ternis, parvis, glabris, rigidulis, linearibus, mucronatis, utrinque acutis, eveniis, brevi-petiolatis; *floribus* terminalibus, solitariis, pedicellatis, cernuis.—*G. Walkeri*, var. *angustifolia*, Benth. l. c. (*partim*).—C.P. 440 (457).

Hab. Ambagamowa District, near Adam's Peak, at an elevation of 4000 to 5000 feet.

Frutex 4–6-pedalis. *Ramuli* puberuli, 3-costati. *Folia* 4–7 lin. longa, ½–1 lin. lata, costa subtus prominenti. *Stipulæ* breves, acuminatæ, basi coalitæ. *Pedicelli* folio breviores, puberuli. *Calyx* brevi-campanulatus, acute 5-dentatus, puberulus, basi bracteolatus. *Corolla* alba, 5–6 lin. longa, parum campanulata, externe glabra, tubo intus superne villosulo, lobis longiore. *Filamenta* corollæ tubi medio affixa, *antheras* oblongas, exsertas æquantia. *Nuculania* subsphærica, cyanea, 4 lin. in diam.

A very beautiful and very distinct species.

5. **G. Kœnigii,** Wight, Ic. t. 1318; Benth. l. c. p. 112.—*G. acuminata*, Benth. l. c.; *Sykesia Kœnigii*, Arn. Pug. 35 (353); DC. l. c.—C.P. 544.

Var. *β. thyrsiflora*.—*G. thyrsiflora*, Blume, Mus. Bot. i. p. 174; Benth. l. c. *G. oxyphylla*, Benth. l. c. *Sykesia thyrsiflora*, Arn. l. c.; DC. l. c.—C.P. 3342.

Hab. Var. *α*. Very abundant up to an elevation of 3000 feet. Var. *β* south of the island, at no great elevation.

The somewhat smaller leaves and flowers, and the elongated and often depauperated cymes of var. *β*, appear to me to be the only characters to separate it from var. *α*.

Digitized by Google

CVI. GENTIANACEÆ.

TRIBE I. *GENTIANEÆ.*

1. **EXACUM,** Linn.

Sect. 1. *Pseudochironia,* Griseb.

1. **E. Zeylanicum,** Roxb. (Griseb. in DC. Prod. ix. p. 45, cum syn.; Hook. Bot. Mag. t. 4423.)—*Chironia trinervia,* Linn.; Moon's Cat. p. 16.—C.P. 512.

Var. β; *floribus* minoribus pallidioribusque; *antheris* brevioribus.—*E. Ramboddeanum,* Gardn. MS.—C.P. 38.

HAB. Common in damp, grassy places, up to an elevation of 5000 feet. Nom. vulg. "Bindara."

Caulis plus minus tetragonus vel subteres. *Folia* ovata vel anguste lanceolata, utrinque plus minus acuminata. *Antheræ* var. α circiter 3 lin. (var. β 1¼ lin.) longæ.

At one time I considered, as did Dr. Gardner, varr. α and β distinct species, but after the examination of very numerous specimens, I am unable to find any essential permanent character to separate them.

2. **E. macranthum,** Arn. (Griseb. l. c. p. 46; Hook. Bot. Mag. t. 4771.)—*E. ovale,* Griseb. l. c.—C.P. 1877.

HAB. Central Province, at an elevation of 5000 to 7000 feet.

Caulis teres vel parum tetragonus. *Corollæ* purpureæ, *lobis* rotundatis, plus minus acuminatis. *Antheræ* 4–5 lin. longæ.

This beautiful plant differs from the preceding only in the deep purple colour of its larger flowers and the greater size of their anthers, and it might safely perhaps be considered a mere mountain variety of it.

3. **E. Walkeri,** Arn. (Griseb. l. c. p. 45.)—C.P. 1878.

HAB. Central Province, at an elevation of 5000 to 6000 feet.

Caulis tetragonus, ad nodos minute glandulosus. *Corolla* alba.

4. **E. axillare,** Thw.; *caule* parum procumbente, 4-alato; *foliis* 3-nerviis, ovato-lanceolatis, utrinque acuminatis; *pedicellis* axillaribus, solitariis, calyce brevioribus; *floribus* 4-meris; *calyce* late alato; *corollæ lobis* lanceolatis, acuminatis.—C.P. 2998.

HAB. Near Hewessee, in the Pasdoon Corle, at no great elevation.

Folia membranacea, 1½–3 poll. longa. *Calyx* semipollicaris; *alis* membranaceis, laxe venosis. *Corolla* cyanea, lobis ½ poll. longis.

Sect. 2. *Pseudosebæa,* Griseb.

5. **E. pedunculatum,** Linn. (Griseb. l. c. p. 46, cum syn.; Wight, Ic. t. 336.)—C.P. 1876.

HAB. Hotter parts of the island, not uncommon.

Corolla pallide cyanea vel albida.

6. **E. sessile,** Linn. (Griseb. l. c. p. 47, cum syn.; Wight, Ic. t. 1324, f. 1.)—C.P. 250.

HAB. Common in grassy places, up to an elevation of 2000 feet.

Corolla cyanea vel albida.

Digitized by Google

2. PLADERA, Roxb.

1. **P. pusilla,** Roxb. (Griseb. in DC. Prod. ix. p. 63, cum syn.)—*Cicendia fastigiata,* Griseb. l. c. p. 62.—C.P. 2840.
HAB. Common in damp, grassy places, in the hotter parts of the island.

3. CANSCORA, Lam.

1. **C. diffusa,** R. Br. (Griseb. in DC. Prod. ix. p. 64, cum syn.)—C.P. 2841.
HAB. Central Province, at an elevation of 2000 to 4000 feet.

2. **C. decussata,** Rœm. et Sch. (Griseb. l. c. cum syn.)—C.P. 2400.
HAB. Not uncommon in the Central Province, on the borders of paddy-fields, up to an elevation of 4000 feet.

3. **C. sessiliflora,** Rœm. et Sch. (Griseb. l. c. cum syn.)—C.P. 3581.
HAB. Batticaloa District; not common.

4. **C. perfoliata,** Lam. (Griseb. l. c. p. 65, cum syn.; Wight, Ic. t. 1327, f. 2.)—C.P. 1874.
HAB. North of the island, *Gardner*.

4. SLEVOGTIA, Reich.

1. **S. orientalis,** Griseb. in DC. Prod. ix. p. 65, cum syn.—C.P. 1871.
HAB. Hotter parts of the island, especially near the sea.

5. GENTIANA, Tournef.

1. **G. pedicellata,** Wall. (Griseb. in DC. Prod. ix. p. 107, cum syn.; Wight, Ic. t. 1328.)—*G. Zeylanica,* Griseb. l. c. p. 108.—C.P. 1873.
HAB. Abundant amongst grass, at Newera Ellia and other of the most elevated parts of the island.

6. CRAWFURDIA, Wall.

Tripterospermum, Blume.

1. **C. fasciculata,** Wall. (Griseb. in DC. Prod. ix. p. 120, cum syn.; Hook. Bot. Mag. t. 4838.)—Var. β *Championii; Tripterospermum Championii,* Gardn. MS.—C.P. 137.
HAB. Horton Plains, in the Central Province, at an elevation of 7000 feet.

Corolla cylindrico-campanulata, 1 poll. longa, 6 lin. in exp., omnino flavo-viridis vel margine plicisque purpureis. *Fructus* carnosus, ruber, stipite æquilongo concolore. *Placentæ* duæ. *Semina* triserialia, libera, acute trigona, brunnea.

The present plant corresponds in so many respects with the figure and description of *C. fasciculata,* that there can scarcely be a doubt of its being a variety of that species. It has, however, essentially the characters of the genus *Tripterospermum* of Blume, and I suspect that the fruit of *Crawfurdia* must have been inaccurately described from dried specimens.

Digitized by Google

7. OPHELIA, Don.

1. **O. Zeylanica,** Griseb. in DC. Prod. ix. p. 124.—C.P. 1875.

HAB. Central Province, in grassy places, at an elevation of 6000 to 7000 feet.

Corolla cyaneo-purpurea, *foveis* orbicularibus ad marginem longe radiato-fimbriatis.

TRIBE II. *MENYANTHEÆ.*

8. LIMNANTHEMUM, Gmelin.

(Nom. vulg. "Oloo," "Ambala.")

1. **L. Indicum.**—*Menyanthes Indica,* Linn. Sp. Pl. cum syn. (non Griseb.)—C.P. 3152.

Var. *a. stamineum; stylo* staminibus multo breviore.—*L. Kleinianum,* Griseb. in DC. Prod. ix. p. 139, cum syn.

Var. *β. stylosum; stylo* lineari, staminibus longiore.—*L. Wightianum,* Griseb. l. c.

HAB. Common in the warmer parts of the island.

Between the forms *a* and *β* of the present plant I can find no difference, except in the relative length of the stamens and style; and, as there are instances of an exactly corresponding kind amongst the *Rubiaceæ* and *Erythroxyleæ,* and I believe also in the *Oxalidaceæ,* this difference is scarcely sufficient to found a specific character upon. The seeds in both forms are delicately muricated, or frequently nearly smooth. As regards the figure in Rumph. Amb. lib. xi. t. 72. f. 3, quoted by Linnæus, it would seem to me that, taken in connection with the description in page 173 of the same volume, there can be but little doubt of its being intended for the plant now under consideration, although Grisebach refers it to a species closely allied to, if it indeed be more than a state of *L. cristatum.*

2. **L. cristatum,** Griseb. l. c. cum syn.; sed Rheede, Hort. Mal. xi. p. 57. t. 29 (non p. 55. t. 28.)—An *L. Indicum,* Griseb. l. c. quoad descript.?—C.P. 1870.

HAB. Abundant in the hotter parts of the island.

3. **L. Moonii,** Thw.; *foliis* parvis; *radicalibus* (*sterilibus*) deltoideis vel trapezoideis, petiolo plus minus elongato; *caulinis* (*floriferis*) cordato-orbiculatis vel obovoideis; *pedicellis* 2–5-nis; *floribus* parvis, 4-meris; *corollæ lobis* fimbriatis, disco versus apicem sparse pilosis; *glandulis* minutis, penicillato-pilosis; *seminibus* minute muricatis vel sublævibus.—*Menyanthes campestris,* Moon's Cat. p. 13. An *Villarsia parvifolia,* Wall. Cat.?—C.P. 2842.

HAB. Not uncommon in the south of the island, growing in the water or on wet ground.

Folia ½–1 poll. in diam. *Flores* albi, circiter 4 lin. in exp.

Nearly allied to the preceding species.

4. **L. biflorum,** Thw.; *caulibus* elongatis, simplicibus, v. parce ramosis plurinodiis; *nodis* monophyllis; *foliis* cordato-orbicularibus, subtus glanduloso-punctatis; *petiolo* longiusculo, basi vaginante; *pedicellis* elongatulis, sæpius binis, in axilla bracteæ oblongæ, subacutæ, folio oppositæ; *calycis segmentis* ovatis, acutis; *corolla* glabra, lutea, calyce duplo longiore, ad faucem glandulis 5 minutis pilosis staminibus alternantibus munita; *lobis* margine fimbriatis; *capsula*

Digitized by Google

polysperma; *seminibus* subsphæricis, opacis, punctulatis.—*Menyanthes biflora*, Moon's Cat. p. 13. An *L. Forbesianum*, Griseb. l. c.?—C.P. 1869.

HAB. South of the island.

This is probably *L. Forbesianum*, Griseb., in part; but it does not quite agree with the characters given of the flower of that species; nor does the author notice the very different habit the present plant exhibits to that of the other species of the section, the stem simply elongating, at each innovation, by the production of a single shoot at its apex, instead of producing, as in the other species (in addition to the fascicle of flower-pedicels), a sessile offset developing its own roots, and a succession of petioled, floriferous leaves, (perhaps more correctly termed petiole-like stems,) each terminated by a single leaf.

CVII. BIGNONIACEÆ.

1. CALOSANTHES, Blume.

1. **C. Indica,** Blume, (DC. Prod. ix. p. 177, cum syn.; Wight, Ic. tt. 1337, 1338.)—C.P. 3171.

HAB. Very common, up to an elevation of 2000 feet. Nom. vulg. "Totilla-gass."

2. SPATHODEA, Beauv.

1. **S. Rheedii,** Wall. (DC. Prod. ix. p. 206, cum syn.; Wight, Ic. t. 1339.)—C.P. 3170.

HAB. Hotter parts of the island. Nom. vulg. "Deya-danga-gass."

3. STEREOSPERMUM, Cham.

1. **S. chelonoides,** DC. Prod. ix. p. 210, cum syn.; Wight, Ic. t. 1341.—C.P. 1959.

HAB. Very abundant near the sea, and occurring up to an elevation of 2000 feet. Nom. vulg. "Loonoo-madala-gass."

S. suaveolens, DC. (C.P. 1960), is sometimes to be found in the neighbourhood of Buddhist temples, in the south of the island, but I cannot hear of its occurring truly wild. Its roots are much valued by the natives as a tonic medicine, and they attribute the same properties and give the same name ("Palol") to those of *Spathodea adenophylla*, which is occasionally found in gardens.

Millingtonia hortensis is very common, but in or near cultivated ground, and I have no evidence of its being really wild.

CVIII. CYRTANDRACEÆ.

1. ÆSCHYNANTHUS, Jack.

1. **Æ. Zeylanica,** Gardn. in Calcutta Journ. vol. vi. p. 474; Wight, Ic. t. 1347.—An *Æsch. Perrottetii*, A. DC. Prod. ix. p. 261, var.?—C.P. 1782.

Digitized by Google

HAB. Central Province, at an elevation of 4000 to 6000 feet.

My specimens differ from the description of *Æ. Perrottetii* principally in the leaves being narrower, and acute at the base, and in the corolla being externally sprinkled with glandular hairs.

2. DIDYMOCARPUS, Wall.

1. **D. Zeylanica,** R. Br. in Pl. Jav. Rar. p. 119; DC. Prod. ix. p. 266. —*D. longipetiolata*, Gardn. in Calc. Journ. vi. p. 475; Walp. Ann. iii. p. 96.—C.P. 352 (395, 1783).

HAB. Ambagamowa District, near Adam's Peak, at an elevation of 5000 to 6000 feet.

Folia basi cordata vel rarius subacuta; *petiolo* breviore, æquilongo vel 2–3-plo longiore, basi sæpe rufescente. *Pedunculi pedicelli*que rubri. *Calyx* flavo-rufescens, *lobis* lineari-lanceolatis, obtusis. *Corolla* alba, *tubo* cyaneo-purpureo. *Stamina sterilia* clavata. *Stigma* oblique orbiculare, album.

2. **D. Humboldtiana,** Gardn. l. c. p. 477; Walp. l. c.; Hook. Bot. Mag. t. 4757.—C.P. 1784.

Var. β. *D. primulæfolia*, Gardn. l. c. p. 478; Walp. l. c.; Hook. Bot. Mag. t. 5161.—C.P. 1785.

HAB. Common in damp, rocky places in the Central Province and elsewhere, up to an elevation of 5000 feet.

This is a most variable species, and there appears to me to be no permanent character to distinguish *D. primulæfolia* from *D. Humboldtiana;* and I think it is not improbable that *D. tomentosa*, *D. ovalifolia*, and *D. Rottleriana*, are some or all of them, varieties of the present plant.

3. **D. floccosa,** Thw.; subacaulis; *foliis* 3–4-nis, ovatis, crenulatis, superne tomentosis, subtus pallide fulvo-floccosis, apice rotundatis vel parum acutis, basi in *petiolum* alatum, plus minus elongatum angustatis; *cymis* compactis *pedunculo*que floccoso-tomentosis; *lobis calycinis* linearibus, subacutis; *corollæ tubo* valde ventricoso, ore contracto; *limbo* patulo, subæqualiter rotundatim 5-lobo; *ovario* glandulis sessilibus pilisque brevibus consperso.—C.P. 3368.

HAB. Dolosbage, in the Central Province, at an elevation of 2000 feet.

Flores pallide purpurei, 6–7 lin. in exp.

This is principally distinguished from the preceding by the different character of its pubescence, its larger foliage, more compact cymes, and the more contracted throat of the corolla.

3. CHIRITA, Ham.

1. **C. Moonii,** Gardn. in Calc. Journ. vi. p. 479; Hook. Bot. Mag. t. 4405; Walp. Ann. iii. p. 98.—*Martynia lanceolata*, Moon's Cat. p. 45.—C.P. 1789.

HAB. Four Corles, *Moon;* Hantani, at an elevation of 3000 to 4000 feet.

2. **C. Walkeri,** Gardn. l. c. p. 480; Hook. Bot. Mag. t. 4327; Walp. l. c.—C.P. 2843.

Var. β; minus pubescens; *floribus* minoribus.—C.P. 542.

HAB. Var. α. Raxawa and Newera Ellia, up to an elevation of 7000 feet. Var. β. Reigam Corle, at no great elevation.

Var. β. *Calyx* 3–4 lin. longus. *Corolla* pollicaris, pallide purpurea. *Antheræ* barbatæ (sicut in var. α).

3. **C. Zeylanica,** Hook. Bot. Mag. t. 4182; Walp. Rep. vi. p. 522.—*C. communis*, Gardn. l. c. p. 481; Walp. Ann. iii. p. 98.—C.P. 1788.

Var. β; *foliis* lanceolatis, utrinque acutis, minus pubescentibus; *venis primariis* paucioribus; *floribus* parum minoribus pallidioribusque.—C.P. 3437.

HAB. Var. *a*. Common in damp forests, up to 5000 feet. Var. β. At the edge of a rivulet in the Singherajah Forest between Galle and Ratnapoora.

4. KLUGIA, Schlecht.

1. **K. Notoniana,** DC. Prod. ix. p. 276, cum syn.; Wight, Ic. t. 1353; Gardn. in Calc. Journ. vi. p. 487.—*K. glabra*, Gardn. l. c. p. 489.—C.P. 1787, 3369.

HAB. Common in the Central Province, on rocks and banks in running streams, up to an elevation of 6000 feet. Nom. vulg. "Deyanella."

2. **K. Zeylanica,** DC. l. c.; Gardn. l. c. p. 490; Hook. Bot. Mag. t. 4620.—C.P. 1786.

HAB. In similar situations with the last.

Præcedenti valde affinis, a qua *foliis floribus*que minoribus, et *lobis calycinis* inter se æqualiter carinatis, solum differre videtur. Varietates forsan species unicæ.

5. EPITHEMA, Blume.

1. **E. carnosum,** Bentham, (DC. Prod. ix. p. 288.)—*E. Zeylanica*, Gardn. in Calc. Journ. vi. p. 492; Wight, Ic. t. 1354.—C.P. 2844.

HAB. Common on damp rocks, in the Central Province, up to an elevation of 5000 feet.

Corolla pallide cyaneo-purpurea.

6. ISANTHERA, Nees.

1. **I. permollis,** Nees in Trans. Linn. Soc. xvii. p. 82; DC. Prod. ix. p. 279; Wight, Ic. t. 1355.—*I. floribunda*, Gardn. in Calc. Journ. vi. p. 483; Walp. Ann. iii. p. 99.—C.P. 1670.

HAB. In damp forests, up to an elevation of 4000 feet.

Corolla alba. *Antheræ* flavæ.

7. CHAMPIONIA, Gardn.

(Calc. Journ. vi. p. 485; Walp. Ann. iii. p. 96.)

1. **C. reticulata,** Gardn. l. c.; Walp. l. c.—C.P. 358.

HAB. Saffragam District, at an elevation of about 3000 feet; not uncommon.

Caulis erectus, 6–12-pollicaris. *Folia* 2–7 poll. longa, ¾–1½ poll. lata, *petiolo* ¼–1¾ poll. longo. *Pedunculi* sæpe folio longiores, solitarii vel bini. *Flores* 4–5 lin. in exp.

Digitized by Google

CIX. SESAMEÆ.

1. SESAMUM, Linn.

1. **S. Indicum,** Linn. (DC. Prod. ix. p. 250, cum syn.; Wight, Illust. ii. t. 163.)—C.P. 2023.
HAB. Jaffna, *Gardner;* Trincomale, *Rev. S. O. Glenie.* Nom. vulg. "Tel-talla."

Cultivated in the hot, drier parts of the island, for the sake of the oil yielded by the seeds.

2. PEDALIUM, D. Roy.

1. **P. Murex,** Linn. (DC. Prod. ix. p. 256.)—C.P. 1779.
HAB. Common near the sea. Nom. vulg. "At-nairenchee."

MARTYNIA DIANDRA has become quite naturalized in the north of the island, on the coast.

CX. HYDROLEACEÆ.

1. HYDROLEA, Linn.

1. **H. Zeylanica,** Vahl, (Choisy in DC. Prod. x. p. 180, cum syn.; Wight, Ic. t. 601.)—C.P. 1883.
Var. β. *ciliata,* Choisy, l. c. cum syn.—C.P. 1884.
HAB. Very common in damp places, in the hotter parts of the island. Nom. vulg. "Deya-kirilla."

CXI. CONVOLVULACEÆ.

1. RIVEA, Choisy.

1. **R. tiliæfolia,** Choisy, in DC. Prod. ix. p. 325, cum syn.—*Argyreia tiliæfolia,* Wight, Ic. t. 1358.—C.P. 2848.
HAB. Very abundant up to an elevation of 3000 feet. Nom. vulg. "Mā-banda."

2. **R. Zeylanica,** Thw.—*Ipomœa Zeylanica,* Gærtn. de Fruct. ii. p. 482. t. 178; Moon's Cat. p. 14.
Var. α. *populifolia.*—*Argyreia populifolia,* Choisy, l. c. p. 329.—C.P. 1943.
Var. β. *hirsuta.*—*R. hirsuta,* Wight, Ic. t. 891. *Argyreia hirsuta,* W. et A.; Choisy, l. c. p. 330.—C.P. 1944.
(Var. γ. *emarginata.*—*R. pomacea,* Wight, Ic. t. 888. *Argyreia pomacea,* Choisy, l. c.)
HAB. Varr. α and β. Very abundant, up to an elevation of 5000 feet. Nom. vulg. "Girri-tilla."

I have no Ceylon specimens of var. γ, but it doubtless occurs in the island.

3. **R. ornata,** Choisy, l. c. p. 326, cum syn.; Wight, Ic. t. 1356.—C.P. 1946.
HAB. Hot, drier parts of the island.

Digitized by Google

2. ARGYREIA, Lour.

1. **A. speciosa,** Sweet, (Choisy in DC. Prod. ix. p. 328, cum syn.)—C.P. 2849.
HAB. Central Province, *Mr. H. de Alwis.* Nom. vulg. "Mahadoomooda."

2. **A. Leschenaultii,** Choisy, l. c. p. 329, cum syn.—C.P. 1932.
HAB. Batticaloa, *Gardner.*

3. **A. splendens,** Sweet, (Choisy, l. c. cum syn.)—C.P. 2845.
HAB. Hantani District, *Gardner.*

4. **A. elliptica,** Choisy, l. c. p. 330, cum syn.—C.P. 1933.
HAB. Central Province; not uncommon.

5. **A. hancorniæfolia,** Gardn. MS.; *foliis* glabris, ellipticis vel ovatis, acuminatis, arcte parallelim venosis, basi rotundatis; *pedunculis* solitariis, unifloris, axillaribus terminalibusque, *petiolo* brevioribus, medio bibracteatis; *bracteis* valde caducis; *fructibus* carnosis, obovato-oblongis, apiculatis.—C.P. 1924.
HAB. Central Province, up to an elevation of 5000 feet.

Ramuli juniores, cum *petiolis pedunculis*que, adpresse fulvo-pilosi. *Folia* subcoriacea, 2–3½ poll. longa, 1¼–1¾ poll. lata, *petiolo* tenui, ¾–1 poll. longo. *Sepala* ovata, subacuta, 2–3 lin. longa. *Corolla* purpurea, *tubo* parum inflato, *limbo* 1½ poll. in exp.

6. **A. aggregata,** Choisy, l. c. p. 333, cum syn.—*Lettsomia aggregata,* Roxb. Wight, Ic. t. 1359.—C.P. 1945.
HAB. Abunda t in the hot, drier parts of the island.

3. BATATAS, Rumph.

1. **B. paniculata,** Choisy, in DC. Prod. ix. p. 339, cum syn.—C.P. 499.
HAB. Colombo, *Mr. W. Ferguson.* Nom. vulg. "Kirri-baddoo."

2. **B. Choisyana,** Wight, Ic. t. 491.—An *Convolvulus atropurpureus,* Wall. Fl. Ind. ii. p. 54; Plant. As. Rar. p. 38. t. 43?—C.P. 3647.
HAB. Batticaloa District.

The only specimen of this plant I possess agrees very well with Wight's figure, but the shape of the corolla would appear to be so very unlike that of Wallich's plant, that, taking the difference of locality also into consideration, I suspect they must be distinct, though Choisy, in DC. Prod. p. 366, describes them as one species, under the name of *Ipomæa atropurpurea.*

BATATAS EDULIS, Choisy, is abundantly cultivated as a vegetable. *B. pentaphylla* is common in gardens, and *Quamoclit coccinea* and *Q. vulgaris* are also common garden plants.

4. PHARBITIS, Choisy.

1. **P. Nil,** Choisy, in DC. Prod. ix. p. 343, cum syn.—C.P. 1938.
HAB. Hot, drier parts of the island.

PHARBITIS LEARII, Hook., has no claim to be considered indigenous to Ceylon.

Digitized by Google

5. CALONYCTION, Choisy.

1. **C. speciosum,** Choisy, in DC. Prod. ix. p. 345, cum syn.; Wight, Ic. t. 1361.—C.P. 3648.

HAB. Abundant in the warmer parts of the island. Nom. vulg. "Alanga."

A plant (C.P. 3580), closely allied to the present, though probably a distinct species, having longer, more fleshy pedicels, and smaller and purple flowers, is cultivated by the Cinghalese, who eat the pedicels in their curries. It is said to be not truly indigenous.

2. **C.? comospermum,** Boj. (Choisy, l. c. p. 346.)—C.P. 3536.

HAB. Jaffna, *Gardner;* Dichwelle, near Matura, close to the sea.

Planta tota glabra. *Pedunculi* uniflori. *Sepala* obtusa, mutica vel mucronulata, demum pollicaria. *Corolla* magna, alba. *Semina* nigra, semipollicaria, margine longiuscule lanata.

Can this be the *Rivea hypocrateriformis*, Choisy, as regards the Trincomale plant? It appears to me to be a true species of *Ipomœa*.

6. IPOMŒA, Linn.

1. **I. reptans,** Poir. (Choisy, in DC. Prod. ix. p. 349, cum syn.)—C.P. 3535.

HAB. On the borders of tanks in the hot, drier parts of the island; also cultivated as a vegetable by the Cinghalese. Nom. vulg. "Kang-koong."

2. **I. Pes-Capræ,** Sw. (Choisy, l. c. cum syn.)—C.P. 1934.

HAB. Very abundant near the sea. Nom. vulg. "Moodoo-bin-tambooroo."

3. **I. rugosa,** Choisy, l. c. p. 350, cum syn.—C.P. 2854.

HAB. Very abundant in damp fields. Nom. vulg. "Bin-tambooroo."

4. **I. reniformis,** Choisy, l. c. p. 351, cum syn.—C.P. 3579.

HAB. Hot, drier parts of the island.

5. **I. littoralis,** Blume, (Choisy, l. c. p. 352.)—C.P. 1939.

HAB. Galle, near the sea.

6. **I. tridentata,** Roth, (Choisy, l. c. p. 353, cum syn.)—C.P. 1929.

Var. β. *I. filicaulis*, Blume, (Choisy, l. c. cum syn.)—C.P. 1930.

HAB. Very abundant in the warmer parts of the island. Nom. vulg. "Hawaree-maddoo."

The two varieties of this plant pass imperceptibly into one another, so that it is often impossible to determine to which of the two some specimens should be referred.

7. **I. campanulata,** Linn. (Choisy, l. c. p. 359, cum syn.; Wight, Ic. t. 1375.)—C.P. 2847.

HAB. Warmer parts of the island; not uncommon.

In general appearance this species closely resembles the more common *Rivea tiliæfolia*, but the flowers are handsomer, the leaves less deeply cordate, and the fruit very different.

8. **I. jucunda,** Thw.; *foliis* rotundato-cordatis, longiuscule acuminatis, superne glabris, subtus tomentellis glanduloso-punctulatisque; *pedunculis* unifloris, petiolo subæquilongis; *sepalis* oblongis, subacutis,

Digitized by Google

externe plus minus pilosis; *seminibus* pilis sericeis longis olivaceis omnino dense tectis.—C.P. 3448.

HAB. Dolosbage District; rare.

Ingens, alte scandens. *Capsula* ovoidea, ¾ poll. longa, *styli* base apiculata, *sepalis* pollicaribus parum reflexis suffulta. *Corollam* nondum vidi.

9. **I. Turpethum,** R. Br. (Choisy, l. c. p. 360, cum syn.)—*I. anceps,* R. et Sch.; Choisy, l. c.—C.P. 3649.

HAB. Hotter parts of the island. Nom. vulg. "Trasta-waaloo."

The roots of this plant are employed by the Cinghalese as a cathartic.

10. **I. Pes-Tigridis,** Linn. (Choisy, l. c. p. 363, cum syn.; Wight, Ic. t. 836.)—C.P. 1942.

Var. β. *I. hepaticifolia,* Linn.; Choisy, l. c. cum syn.

HAB. Very abundant in the hotter parts of the island. Var. β. Colombo, *Mr. W. Ferguson.* Nom. vulg. "Diwi-addeeya."

11. **I. Wightii,** Choisy, l. c. p. 364, cum syn.; Wight, Ic. t. 1364.—C.P. 2851.

HAB. Central Province, at an elevation of 2000 to 3000 feet.

12. **I. pileata,** Roxb. (Choisy, l. c. p. 365, cum syn.; Wight, Ic. t. 1363.)—C.P. 3501.

HAB. Peradenia; not common.

13. **I. sessiliflora,** Roth, (Choisy, l. c. p. 366, cum syn.; Wight, Ic. t. 169.)—C.P. 3107.

HAB. Central Province, up to an elevation of 4000 feet.

14. **I. obscura,** Bot. Reg. (Choisy, l. c. p. 370, cum syn.)—C.P. 1935.

HAB. Common up to an elevation of 3000 feet.

15. **I. sepiaria,** König, (Choisy, l. c. cum syn.; Wight, Ic. t. 838.)—C.P. 1937.

Var. β. *sagittata.*—C.P. 2859.

HAB. Common in the warmer parts of the island.

16. **I. cymosa,** R. et Sch. (Choisy, l. c. p. 371, cum syn.)—C.P. 1931.

HAB. Common throughout the island. Nom. vulg. "Maddoo."

17. **I. chryseides,** Bot. Reg. (Choisy, l. c. p. 382, cum syn.; Wight, Ic. t. 157.)—C.P. 1940.

HAB. Warmer parts of the island; not common.

18. **I. Coptica,** Roth, (Choisy, l. c. p. 384, cum syn.)—C.P. 1928.

HAB. North of the island, *Gardner.*

19. **I. palmata,** Försk. (Choisy, l. c. p. 386, cum syn.)—*I. pulchella,* Roth; Choisy, l. c.; Wight, Ic. t. 156.)—C.P. 3387.

HAB. Ambagamowa District.

7. ANISEIA, Choisy.

1. **A. uniflora,** Choisy, in DC. Prod. ix. p. 431, cum syn.; Wight, Ic. t. 850.—C.P. 3006.

HAB. Warmer parts of the island.

8. SHUTEREIA, Choisy.

1. **S. bicolor,** Choisy, in DC. Prod. ix. p. 435, cum syn.; Wight, Ic. t. 835.—C.P. 1970.

Digitized by Google

HAB. Common in the hot, drier parts of the island.

9. BREWERIA, R. Br.

1. **B. Roxburghii,** Choisy, in DC. Prod. ix. p. 438, cum syn.; Wight, Ic. t. 1370.—C.P. 2853.
HAB. South of the island; not uncommon.

10. CRESSA, Linn.

1. **C. Cretica,** Linn. (β *Indica;* Choisy, in DC. Prod. ix. p. 440.)—C.P. 1925.
HAB. North of the island, *Gardner.*

11. EVOLVULUS, Linn.

1. **E. alsinoides,** Linn. (Choisy in DC. Prod. ix. p. 447, cum syn.)—C.P. 1926.
HAB. Common throughout the island, in hot, dry places. Nom. vulg. "Visnoo-Kraanta."

TRIBE *CUSCUTEÆ.*

12. CUSCUTA, Tourn.

1. **C. reflexa,** Roxb. (Choisy in DC. Prod. ix. p. 454, cum syn.; Hook. Ex. Fl. t. 150.)—C.P. 1922.
HAB. Upon stems of, apparently, *Wendlandia Notoniana,* Newera Ellia, *Gardner.*

2. **C. Chinensis,** Lam. (Choisy, l. c. p. 457, cum syn.; Wight, Ic. t. 1373.)—C.P. 611.
HAB. Colombo, on stems of *Achyranthes aspera.*

CXII. ERYCIBEÆ.

1. ERYCIBE, Roxb.

1. **E. paniculata,** Roxb. (DC. Prod. ix. p. 464, cum syn.)—C.P. 1881.
HAB. Common in the warmer parts of the island, up to an elevation of 3000 feet. Nom. vulg. "Atta-meeriya."

CXIII. BORAGINACEÆ.

TRIBE *CORDIEÆ.*

1. CORDIA, Plum.

Sectio *Myxa,* Endl.

1. **C. Myxa,** Linn. (DC. Prod. ix. p. 479, cum syn.; Wight, Illust. ii. t. 169.)—C.P. 3650.

Digitized by Google

Var. β *minor; foliis fructibus*que minoribus.—C.P. 1880. An species distincta?

HAB. Var. *a*. Central Province, etc. Var. β. Hot, drier parts of the island. Nom. vulg. "Loloo."

Var. β bears a very great general resemblance to var. *a*, but a more careful examination of fresh specimens may possibly prove it to be distinct. With the materials I have at present, I can discover no essential difference between the two plants.

2. **C. oblongifolia,** Thw.; *foliis* glabris, oblongis, brevi-acuminatis, minutissime reticulato-venulosis, basi subacutis, longiuscule petiolatis; *paniculis* terminalibus, parce pilosis; *calyce* cylindrico, 3–5-dentato, interne villoso; *corolla* 5–7-loba; *lobis* oblongis, reflexis; *tubo* calyce æquilongo; *fructibus* majusculis, rotundatis, acuminatis.—C.P. 2696.

HAB. Central Province, up to an elevation of 2000 feet.

Subscandens. *Ramuli* teretes, glabri. *Folia* 2–5 poll. longa, 1–2½ poll. lata, *petiolo* pollicari, e basi tumida, subhamata oriente et cum eadem articulato. *Calyx* 4 lin. longus. *Stylus* profunde bis bifidus. *Fructus* subpollicaris, calyce aucto subintegro suffultus.

3. **C. diversa,** Thw.; *foliis* ovatis, parum acuminatis, basi rotundatis, trinerviis, superne scaberrimis, subtus fusco-tomentosis; *paniculis* terminalibus, paucifloris, tomentosis; *calyce* obconico.—C.P. 1954.

HAB. Hot, drier parts of the island.

Ramuli juniores tomentosi. *Folia* 2–4 poll. longa, 1–2½ poll. lata, *petiolo* ½–1 poll. longo. *Calyx* 3 lin. longus, 3–4-dentatus, externe præcipue versus apicem tomentosus, interne glaber. *Corolla* glabra, calyce parum longior, 5-loba. *Stylus* profunde bis bifidus. *Fructus* rotundatus, semipollicaris, calyce aucto scabro irregulariter dentato suffultus.

TRIBE *EHRETIEÆ*.

2. EHRETIA, Linn.

1. **E. lævis,** Roxb. (DC. Prod. ix. p. 505, cum syn.; Wight, Ic. t. 1382.)—C.P. 1879.

HAB. Common in the drier parts of the island.

2. **E. buxifolia,** Roxb. (DC. Prod. p. 509, cum syn.)—C.P. 1885.

HAB. Abundant in the hot, drier parts of the island. Nom. vulg. "Heen-tambala."

3. RHABDIA, Martius.

1. **R. viminea.**—*Ehretia? viminea*, Wall.; DC. Prod. ix. p. 509. *E.* (*xeroderma*) *cuneata*, Wight, Ic. t. 1385.—C.P. 3491.

HAB. Ambagamowa District; not common.

Flores roseo-purpurei. *Stigma* bilobum.

4. TOURNEFORTIA, Linn.

1. **T. argentea,** Linn. f. (DC. Prod. ix. p. 514, cum syn.)—C.P. 1882.

HAB. South of the island, close to the sea.

Sectio *Tetrandra*, DC.

2. **T. Wallichii,** DC. l. c. p. 527, cum syn.—C.P. 2697.

Digitized by Google

HAB. Southern and Central Provinces, up to an elevation of 2000 feet.

Corolla pallide flavo-viridis. *Fructus* carnosus, ovatus, glaber, circiter 2 lin. longus, albido-rufescens.

The sessile, tetramerous flowers distinguish this from the *T. reticosa*, Wight, which in general appearance it very much resembles.

TRIBE *HELIOTROPIEÆ.*

5. HELIOTROPIUM, Tourn.

1. **H. supinum,** Linn.—β *Malabaricum,* Benth.; DC. Prod. ix. p. 533; Wight, Ic. t. 1387.—C.P. 2854.

HAB. North of the island, *Gardner.*

2. **H. marifolium,** Retz, (DC. l. c. p. 547; Wight, Ic. t. 1390.)—An *H. scabrum,* et *H. Rottleri,* Wight, Ic. tt. 1389, 1392?—C.P. 1889, 1891.

HAB. Common on the borders of paddy-fields, in the hotter parts of the island.

A very variable plant, and I suspect that Dr. Wight's three figures, quoted above, represent three forms only of it.

3. **H. linifolium,** Lehm. (DC. l. c. cum syn.; Wight, Ic. t. 1391.)—C.P. 1886.

HAB. Jaffna, *Gardner.*

I have not met with any plant in the island corresponding with the figure of *H. Zeylanicum,* Burm. Fl. Ind. t. 16. f. 2.

6. HELIOPHYTUM, DC.

Sectio *Tiaridium.*

1. **H. Indicum,** DC. Prod. ix. p. 556, cum syn.—*Tiaridium Indicum,* Lehm.; Wight, Illust. ii. t. 171.—C.P. 1893.

Var. β. *foliis* minoribus; *corollæ tubo* longiore quam in var. *a.*—C.P. 1894.

HAB. Common in the warmer parts of the island. Var. β. Bintenne, *Gardner.*

7. COLDENIA, Linn.

1. **C. procumbens,** Linn. (DC. Prod. ix. p. 558, cum syn.)—C.P. 1890.

HAB. Common in the hot, drier parts of the island.

TRIBE *BORAGEÆ.*

8. CYNOGLOSSUM, Tourn.

1. **C. micranthum,** Desf. (DC. Prod. x. p. 149, cum syn.)—*C. ovatum,* Moon's Cat.—C.P. 143.

HAB. Common in waste places throughout the island. Nom. vulg. "Boo-kattoo-handa."

2. **C. furcatum,** Wall. (DC. l. c. cum syn.; Wight, Ic. t. 1395.)—*C. decurrens?,* Moon's Cat. p. 12.—C.P. 1892.

HAB. Common in the most elevated parts of the island.

Digitized by Google

Folia caulina semiamplexicaulia vel plus minus decurrentia. *Corolla* cyaneo-purpurea.

As remarked by Dr. Wight, the present plant is very closely allied to *C. micranthum*, and the two may possibly prove to be varieties only of one species.

9. TRICHODESMA, R. Br.

1. **T. Indicum,** R. Br. (DC. Prod. x. p. 172, cum syn.; Wight, Illust. ii. t. 172.)—C.P. 1887.
HAB. Jaffna, *Gardner;* Trincomale, *Rev. S. O. Glenie.*

2. **T. Zeylanicum,** R. Br. (DC. l. c.)—C.P. 1888.
HAB. Hot, drier parts of the island.

CXIV. SOLANACEÆ.

1. SOLANUM, Tourn.

1. **S. nigrum,** Linn.—*S. rubrum,* Roxb. Wight, Ic. t. 344.—C.P. 2865.
HAB. Common throughout the island. Nom. vulg. "Kaloo-kang-waireya."

2. **S. verbascifolium,** Linn. (Duval in DC. Prod. xiii. p. 114, cum syn.; Wight, Ic. t. 1398.)—C.P. 1902.
HAB. Common in the Central Province. Nom. vulg. "Hakkarilla."

3. **S. auriculatum,** Ait. (Dun. l. c. p. 115, cum syn.)—C.P. 3525.
HAB. Common in cultivated ground, and also called "Hakkarilla."

4. **S. pubescens,** Willd. (Wight, Ic. t. 1402.)—C.P. 1901.
HAB. Hot, drier parts of the island.

5. **S. membranaceum,** Wall. (Dun. l. c. p. 143.)—C.P. 1900.
HAB. Central Province, up to an elevation of 4000 feet.

6. **S. denticulatum,** Blume, (Dun. l. c. p. 181; Wight, Ic. t. 1397.)—Var. *calyce* 5-dentato.—C.P. 2864.
HAB. Not uncommon in the Central Province, at an elevation of 4000 to 5000 feet.

This so closely resembles, except in the fewer teeth of its calyx, Wight's figure quoted above, that I cannot venture to describe it as a distinct species. It is very nearly allied, too, to *S. membranaceum,* but is much more hairy, and has larger flowers and fruit: they may possibly, however, be varieties of one species.

7. **S. ferox,** Linn. (Dun. l. c. p. 255, cum syn.; Wight, Ic. t. 1399.)—C.P. 2868.
HAB. Common up to an elevation of 4000 feet. Nom. vulg. "Malla-battoo."

The ripe fruit is eaten by the Cinghalese.

8. **S. giganteum,** Jacq. (Dun. l. c. p. 258, cum syn.; Wight, Ic. t. 893.)—C.P. 1903.
HAB. Matturatte and Rambodde, in the Central Province, at an elevation of 3000 to 5000 feet.

9. **S. torvum,** Linn. (Dun. l. c. p. 260, cum syn.; Wight, Ic. t. 345.)—C.P. 2867.
HAB. Common on waste ground in the Central Province.

Digitized by Google

10. **S. trilobatum,** Linn. (Dun. l. c. p. 287, cum syn.; Wight, Ic. t. 854.)—C.P. 1906.
HAB. Hot, drier parts of the island. Nom. vulg. "Wal-tibbootoo."

11. **S. xanthocarpum,** Schrad. et Wendl. (Dun. l. c. p. 302, cum syn.) —*S. diffusum,* Roxb. Fl. Ind. ii. p. 250.—C.P. 1907.
Var. *β. Jacquini.*—*S. Jacquini,* Willd.; Wight, Ic. t. 1401.—C.P. 1905.
HAB. Common throughout the warmer parts of the island. Nom. vulg. Var. *α.* "Ella-battoo." Var. *β.* "Kattoo-wel-battoo."

The fruit of varr. *α* and *β* is eaten by the Cinghalese. Every part of var. *β* is used medicinally.

12. **S. Indicum,** Linn. (Nees; Dun. l. c. p. 309, cum syn.; Wight, Ic. t. 346.)—C.P. 1904.
HAB. Very abundant in waste places throughout the island. Nom. vulg. "Tibbootoo."

The unripe fruit is eaten, after being boiled, by the Cinghalese.

Solanum esculentum, Dun., and several species and varieties of *Capsicum,* are commonly cultivated as vegetables and condiments.

2. PHYSALIS, Linn.

(Nom. vulg. "Mottoo.")

1. **P. minima,** Linn. (Dunal in DC. Prod. xiii. p. 445, cum syn.)—*P. Indica,* Lam.; Dun. l. c. p. 443. *P. Hermanni,* Dun. l. c. p. 444.—C.P. 2866.
HAB. Common in waste and cultivated ground in the warmer parts of the island.

2. **P. angulata,** Linn. (Dun. l. c. p. 449, cum syn.)—C.P. 1898.
HAB. Frequent in similar situations with the last.

3. WITHANIA, Duval.

1. **W. somnifera,** Dun. in DC. Prod. xiii. p. 453, cum syn.; Wight, Ic. t. 853.—C.P. 3651.
HAB. Common in cultivated ground. Nom. vulg. "Amookkarā."

The whole plant is used as a medicine by the Cinghalese.

4. DATURA, Linn.

(Nom. vulg. "Attana.")

1. **D. fastuosa,** Linn. (Dun. in DC. Prod. xiii. p. 542, cum syn.; Wight, Ic. t. 1396.)—C.P. 1897.
HAB. Very common in waste and cultivated ground.

The flowers of this variable species are frequently quite white. May not *D. Metel,* Linn., be a variety only of the present plant?

CXV. SCROPHULARIACEÆ.

1. CELSIA, Linn.

1. **C. Coromandeliana,** Vahl, (Bentham in DC. Prod. x. p. 246, cum syn.; Wight, Ic. t. 1406.)—C.P. 2021.

Digitized by Google

HAB. North of the island, *Gardner.*

2. LINDENBERGIA, Lehm.

1. **L. urticæfolia,** Lehm. (Benth. in DC. Prod. x. p. 377, cum syn.)
HAB. Ceylon, *Champion* (*Hb. Hook.*).

3. PTEROSTIGMA, Benth.

1. **P. villosum,** Benth. l. c. p. 380, cum syn.—C.P. 2041 (723, 2054).
HAB. South of the island, common.

2. **P. capitatum,** Benth. l. c. cum syn.—C.P. 2880.
HAB. South of the island. Nom. vulg. "Gona Kola."
The Cinghalese frequently chew the leaves of this plant with their betel.

4. LIMNOPHILA, R. Br.

1. **L. serrata,** Gaud. (Benth. l. c. p. 387, cum syn.)—*L. conferta,* Benth. l. c. cum syn. *L. micrantha,* Benth. l. c. cum syn.—C.P. 2049.
HAB. Very abundant in paddy-fields and wet places.

2. **L. hirsuta,** Benth. l. c. p. 388, cum syn.—An *L. villosa,* Bl., Benth. l. c.? An *L. diffusæ,* G. Don, Benth. l. c. var.?—C.P. 2040.
HAB. Common in similar situations with the last.

3. **L. punctata,** Bl. (Benth. l. c. p. 388, cum syn.)—*L. erecta,* Benth. l. c. cum syn.—C.P. 2035, 535.
HAB. Very common in wet places.

4. **L. gratioloides,** R. Br. (Benth. l. c. p. 389, cum syn.)—*L. Roxburghii,* G. Don; Benth. l. c. p. 388.—C.P. 2038.
HAB. Common in the hotter parts of the island.

5. **L. sessiliflora,** Bl. (Benth. l. c.)—*L. heterophylla,* Benth. l. c. p. 390, cum syn.—C.P. 2037, 2389 (2039).
HAB. Very abundant.

6. **L. racemosa,** Benth. l. c. p. 390, cum syn.; Wight, Ic. t. 861.—C.P. 2036, 2996.
HAB. Abundant in the warmer parts of the island.

5. HERPESTIS, Gærtn. f.

1. **H. floribunda,** R. Br. (Benth. in DC. Prod. x. p. 400, cum syn.)—C.P. 2881.
HAB. Cultura, *Moon.*

2. **H. Monnieria,** H.B.K. (Benth. l. c. cum syn.)—C.P. 2031.
HAB. Very abundant in wet places. Nom. vulg. "Loonoo Weela."
Used as a medicine for children.

6. DOPATRIUM, Ham.

1. **D. nudicaule,** Benth. in DC. Prod. x. p. 407, cum syn.—C.P. 2046.
HAB. Not uncommon in the warmer parts of the island.

Digitized by Google

2. **D. lobelioides,** Benth. l. c. cum syn.; Wight, Ic. t. 859.—C.P. 2042 (2043).
HAB. Common in the hotter parts of the island, in wet places.

3. **D. junceum,** Ham. (Benth. l. c.)—C.P. 2044.
HAB. Very abundant.

This plant, notwithstanding the great difference in the size of the flowers, is perhaps scarcely specifically distinct from the preceding.

7. ARTANEMA, Don.

1. **A. sesamoides,** Benth. in DC. Prod. x. p. 408, cum syn.; Wight Ic. t. 1410.—C.P. 2024.
HAB. Very common, up to an elevation of 3000 feet.

8. TORENIA, Linn.

1. **T. Asiatica,** Linn. (Benth. in DC. Prod. x. p. 410, cum syn.)—*T. hirsuta,* Ham.; Benth. l. c. cum syn.; Wight, Ic. t. 862.—C.P. 2032.
HAB. Very abundant.

A very variable species, and I suspect that the following is but a form of it.

2. **T. rubens,** Benth. l. c.—C.P. 2033.
HAB. Central Province, up to an elevation of 4000 feet.

9. VANDELLIA, Linn.

1. **V. crustacea,** Benth. in DC. Prod. x. p. 413, cum syn.; Wight, Ic. t. 863.—C.P. 2048 (2052).
HAB. Very abundant in paddy-fields and other wet places.

2. **V. multiflora,** G. Don, (Benth. l. c. cum syn.)—*V. hirsuta,* Ham.; Benth. l. c. cum syn.—C.P. 3309.
HAB. Near Kornegalle.

3. **V. scabra,** Benth. l. c. cum syn.—C.P. 2885.
HAB. Very common in moist ground.

4. **V. pedunculata,** Benth. l. c. cum syn.—C.P. 652.*
HAB. Abundant in paddy-fields, etc.

5. **V. angustifolia,** Benth. l. c. cum syn.—C.P. 2884.
HAB. Cultura, *Moon.*

10. ILYSANTHES, Rafin.

1. **I. hyssopioides,** Benth. in DC. Prod. x. p. 419, cum syn.; Wight, Ic. t. 857.—*I. parviflora,* Benth. l. c. cum syn. *I. rotundifolia,* Benth. l. c. p. 420, cum syn.—C.P. 2047, 3111.
HAB. Common in paddy-fields.

The plants I have ventured to unite under this species merge so completely into one another, that I cannot separate them.

11. BONNAYA, Link and Otto.

(Nom. vulg. "Weela.")

1. **B. veronicæfolia,** Spr. (Benth. in DC. Prod. x. p. 421, cum syn.)

---

* C.P. 652 in Herb. Hook. is *Ilysanthes hyssopioides,* Benth.—ED.

Digitized by Google

—*B. grandiflora*, Spr.; Benth. l. c. cum syn. *B. verbenæfolia*, Spr.; Benth. l. c. cum syn.—c.p. 3084, 2050, 2051.

HAB. Abundant in paddy-fields, etc.

An extremely variable plant; and further investigation will probably determine the following as well as the other described species of this genus to be forms only of one.

2. **B. tenuifolia,** Spr. (Benth. l. c. p. 422.)—c.p. 2883.

HAB. Central Province, *Macrae*.

12. MICROCARPÆA, R. Br.

1. **M. muscosa,** R. Br. (Benth. in DC. Prod. x. p. 433, cum syn.)—c.p. 2728.

HAB. Not uncommon in moist ground.

13. BUCHNERA, Linn.

1. **B. hispida,** Ham. (Benth. l. c. p. 496, cum syn.; Wight, Ic. t. 1413.)

HAB. Ceylon, *Walker* (*Hb. Hook.*).

14. STRIGA, Linn.

1. **S. hirsuta,** Benth. in DC. Pr. x. p. 502, cum syn.—c.p. 2028, 2886.

HAB. Common up to an elevation of 4000 feet.

This species has larger flowers when growing on the hills, than when it occurs in the low country.

2. **S. euphrasioides,** Benth. l. c. p. 503, cum syn.—*Buchnera euphrasioides*, Wight, Ic. t. 855.—c.p. 2887.

Var. β; minus hirsuta, *caule* elongato, *foliis floralibus* brevioribus, *calyce* 15-costato, denique fisso.—c.p. 2029 (2030, 2031).

HAB. Var. *a*. Bintenne, *Gardner*. Var. β. Very common in swampy places in the hotter parts of the island.

Flores albi.

15. SOPUBIA, Ham.

1. **S. delphinifolia,** G. Don, (Benth. in DC. Prod. x. p. 522, cum syn.)—c.p. 2022.

HAB. Common up to an elevation of 4000 feet.

2. **S. trifida,** Ham. (Benth. l. c. cum syn.)—c.p. 525.

HAB. Abundant at Newera Ellia and other of the more elevated parts of the Central Province.

16. CENTRANTHERA, R. Br.

1. **C. Brunoniana,** Wall. (Benth. in DC. Prod. x. p. 525.)—*C. procumbens*, Benth. l. c.—c.p. 2026 (2027).

HAB. Common in grassy wet places, up to an elevation of 3000 feet. Nom. vulg. "Dootoo-satootoo."

2. **C. hispida,** R. Br. (Benth. l. c. cum syn.)—c.p. 2025.

Digitized by Google

HAB. In similar situations with the preceding species, but not so common.

3. **C. humifusa,** Wall. (Benth. l. c. cum syn.)—C.P. 2888.
HAB. South of the island.

17. PEDICULARIS, Linn.

1. **P. Zeylanica,** Benth. in DC. x. p. 580; Wight, Ic. t. 1419.—C.P. 229.
HAB. Abundant at Newera Ellia, Horton Plains, and other of the more elevated parts of the Central Province.

CXVI. OROBANCHACEÆ.

1. ÆGINETIA, Linn.

Calyx spathaceus vel tubulosus irregulariter fissusque. *Antheræ* cohærentes; *superiores* uniloculares; *inferiores* biloculares, uno loculo sterili, oblongo, apiculato.

1. **Æ. Indica,** Roxb. (Reuter in DC. Prod. xi. p. 43, cum syn.; Wight, Ic. t. 895.)—C.P. 1778.
HAB. Hantani, *Macrae.*

2. **Æ. acaulis,** Walp. (Reut. l. c. cum syn.?)
Var. *α*; *calyce* spathaceo, *ramis placentæ* parce irregulariter lobatis.—C.P. 3635.
Var. *β*; *calyce* breviore, tubuloso, 2–5-dentato, *ramis placentæ* non lobatis.—C.P. 2972.
HAB. Var. *α*. Below Hapootelle, amongst *Andropogon Schœnanthus.* Var. *β*. Rambodde District.

Corolla (var. *β*) albida, limbo ad marginem pulcherrime violaceo-purpureo, labio inferiore interne ad faucem aurantiaco.

Varr. *α* and *β* are probably distinct species, but I have not sufficient materials as regards var. *α* to enable me to determine this point satisfactorily. Var. *β* forms, with *Christisonia unicolor,* a connecting link between the present and the next genus.

2. CHRISTISONIA, Gardner.

(Calcutta Journ. of Nat. Hist. viii. p. 153. *Christisonia,* Wight; et forsan *Campbellia,* Wight, et *Oligopholis,* Wight, Ic.)

Calyx tubulosus, 5-dentatus. *Stamina* didynama. *Antheræ* cohærentes, biloculares, singularum uno loculo sterili, subulæformi, porrecto.

1. **C. grandiflora,** Gardn. l. c. p. 155.—C.P. 3085.
HAB. "Parasitic on the root of a large Acanthaceous shrub, on the ascent to Adam's Peak from Ratnapoorah, at an elevation of about 5000 feet, March," *Gardner.*

Caulis glaber, squamosus, parce ramosus, 2–3-pollicaris; *ramis* 1–3-floris. *Squamæ* ovatæ, subacutæ, fuscæ, circiter 4 lin. longæ. *Pedicelli* teretes, ebracteolati, pollicares. *Calyx* 5-angularis, 9 lin. longus, dentibus lanceolatis, æqualibus, 3 lin. longis. *Corolla* circiter 3 poll. longa; *limbo* roseo, 2 poll. in exp.; *lobis* crenatis, inferiore ad faucem croceo. *Stamina* inclusa.—*A descript. cl. Gardner excerpt.*

Digitized by Google

This is, I suspect, a form only of the following species, the only real difference appearing to be in the size and colour of the flowers; for the character derived from the position of the sterile loculus of the anthers is a fallacious one, this being, in all the species of the genus I have examined in a fresh state, porrected and nearly horizontal.

2. **C. tricolor,** Gardn. l. c. p. 156.—C.P. 2889.

HAB. Central Province, at an elevation of 3000 to 4000 feet; parasitic on roots of *Acanthaceæ*, *Gardner*.

Caulis glaber, squamosus, parce ramosus, 1–3-pollicaris; *ramis* 1–2-floris. *Pedicelli* teretes, ebracteolati, rufescentes, pollicares. *Calyx* 5-angularis, rufescens, 8 lin. longus; *dentibus* æqualibus, lanceolatis, acutis, 3 lin. longis. *Corolla* circiter 2½ poll. longa; *tubo* infundibuliformi, fauce lutea; *limbo* 1–1¼ poll. in exp.; *lobis* 2 superioribus denticulatis, sanguineis, 3 inferioribus subcrenatis, pallide roseis. *Stamina* inclusa.—*Gardner*.

3. **C. bicolor,** Gardn. l. c. p. 160.—C.P. 3108.

Var. *β*. *pallidiflora*.—*C. pallida*, Gardn. l. c. p. 159.—C.P. 1781.

HAB. In similar situations with the last, *Lear*, *Gardner*.

Caulis simplex, 3–6 poll. longus, verrucoso-hispidus, apicem versus rufescens, sublævis squamosusque. *Squamæ* ovatæ, acutæ, circiter 4 lin. longæ, pilosulæ. *Flores* racemosi, sæpissime 5–6. *Pedicelli* 1–8 lin. longi, bibracteolati. *Calyx* tubulosus, pilosulus, rufescens, circiter 8 lin. longus; *dentibus* æqualibus, acutis, circiter 1 lin. longis. *Corolla* infundibuliformis, sesquipollicaris, pallide roseo, plus minus flavescens, vel omnino flava; *limbo* 1–1¼ poll. in exp., lobis undulatis. *Stamina* inclusa; *filamentis* glanduloso-pilosis.—*A descrip. cl. Gardn. præcipue excerpt.*

4. **C. unicolor,** Gardn. l. c. p. 161.—An *Campbellia cytinoides*, Wight, Ic. t. 1425, cum syn.?—C.P. 2971, ? 1780.

HAB. Hunasgiria Range, *Lear*. Rambodde, at an elevation of 3000 to 4000 feet.

Tota planta flava. *Caulis* simplex, glaber, angularis, squamosus, 1–3-pollicaris, ad basin verrucoso-hispidus. *Squamæ* subrotundæ, 3–6 lin. longæ. *Flores* racemosi, sæpissime 5–6. *Pedicelli* 2–8 lin. longi, ebracteolati. *Calyx* pollicaris, angularis, irregulariter acute 5-dentatus. *Corolla* infundibuliformis, 1½–2 poll. longa; *lobis* integris, parum reflexis. *Stamina* exserta; *filamentis* glabris; *antherarum* superiorum loculo sterili parvo. *Placentæ* majusculæ.

CXVII. PODOSTEMACEÆ.

1. DICRÆA, Pet. Th.

1. **D. elongata,** Tulasne in Ann. des Sci. Nat. (sér. 3), vol. ii. p. 102. Walp. Ann. iii. p. 437; Wight, Ic. t. 1917–1.—*Podostemon elongatus*, Gardner in Calc. Journ. of Nat. Hist. vol. vii. p. 188.—C.P. 2259.

HAB. Rocks in the bed of the Mahawelle Ganga, near Kandy, *Gardner*. Fl. January to March.

2. PODOSTEMON, Mich.

1. **P. subulatum,** Gardn. l. c. p. 184; Wight, Ic. t. 1918–1; Tulasne, l. c. p. 103.—*P. dendroides*, Thw. MS. in Hb. Hook.—C.P. 3088, 3366.

HAB. Rocks in the Mahawelle Ganga. Fl. January to March, *Gardner*.

Digitized by Google

2. **P. Gardneri,** Harvey, MS.; *caule* simplici, terete, glabro, foliis plurimis capillaceis coronato.—C.P. 2989.

HAB. On the membranaceous rhizomes of *Hydrobryum olivaceum*, Tul. In a rapid mountain stream at Rambodde, Oct. 1853, *Dr. W. H. Harvey.*

Caulis ½–1-pollicaris. *Folia* 1½–2 poll. longa, delicatula, nigro-viridia, enervosa. *Inflorescentia* ignota.

Until its inflorescence has been discovered, some doubt must remain to which genus of the present family this plant is to be referred, and my attempts to trace its further development from the state described above, have been hitherto unsuccessful. Can it possibly be an early stage of growth of *Hydrobryum olivaceum?*

3. HYDROBRYUM, Endl.

1. **H. olivaceum,** Tul. l. c. p. 104; Walp. Ann. iii. p. 439.—*Podostemon olivaceum*, Gardn. l. c. p. 181.—C.P. 3065.

HAB. On rocks in the Mahawelle Ganga, and large mountain streams in the Central Province, *Gardner*. Fl. January to March.

4. DALZELLIA, Wight, Ic. vol. v. par. ii. p. 34.

(*Lawia*, Tulasne. *Mnianthus*, Walp.)

1. **D. Ceylanica,** Wight, Ic. t. 1919–1.—*Lawia Zeylanica*, Tul. l. c. p. 112. *Mnianthus Zeylanicus*, Walp. l. c. p. 443. *Tristicha Ceylanica*, Gardn. l. c. p. 177.—C.P. 3089.

HAB. On rocks in the Mahawelle Ganga, near Kandy, *Gardner*.

CXVIII. ACANTHACEÆ.*

[The Indian *Acanthaceæ* being in process of examination and re-arrangement at Kew, by Dr. Thomas Anderson, F.L.S., of the Bengal Medical Service, who is preparing a new classification of the Order for the Linnæan Society of London, Mr. Thwaites has, at my suggestion, gladly availed himself of the opportunity of placing his enumeration of the Ceylon species (which was arranged according to Nees's method) in Dr. Anderson's hands. The latter gentleman has kindly devoted some weeks to the study of every species and its synonyms, and has classified the whole in accordance with his forthcoming 'Systema Novum Acanthacearum.' I have added the initials G. Thw. and T. A. to various paragraphs where doubts may arise as to the exact authority for the observations they contain."—*J. D. H.*]

SUBORD. 1. *THUNBERGIDEÆ.—Æstivatio corollæ contorta. Semina cupulâ suffulta. Plantæ scandentes.*

TRIB. *THUNBERGIEÆ.*

1. THUNBERGIA, Linn. fil.

1. **T. coccinea,** Wall. Tent. Fl. Nep.—*Hexacentris*, N. ab E. in Wall. Pl. As. Rar.; DC. Prod. xi. p. 61, cum. syn.

Macrae's specimens, referred to by Nees von Esenbeck, were collected in the Botanic Garden from a cultivated plant, as I am informed by Mr. Alwis, the draughtsman

---

* The native name *Nelloo* is applied to the species of this Natural Family generally.—*G. Thw.*

Digitized by Google

of this establishment. Mr. Alwis is under the impression that he once saw the plant growing wild in a forest between Oova and Balangodde. I have however only seen it in a cultivated state, and suspect it is not truly indigenous.—*G. Thw.*

2. **T. Hawtaynii,** Wall. Tent.—*Meyenia Hawtayniana,* N. ab E. in Wall. Pl. As. Rar.; DC. Prod. xi. p. 60, cum. syn.; Wight, Ic. t. 1487.
HAB. Ceylon, *Walker, in Herb. Hook.*

Mr. Thwaites has never met with this species in the island.

3. **T. fragrans,** Roxb. Fl. Ind. iii. p. 33; DC. l. c. p. 57, cum. syn.—C.P. 2020.
HAB. Abundant up to an elevation of 7000 feet.

Flores non fragrantes. *Corolla* alba, tubo interne pallide viridi.—*T. A.*

SUBORD. 2. *RUELLIDEÆ.—Æstivatio corollæ contorta. Semina papillâ v. retinaculo uncinato suffulta. Plantæ non scandentes.*

TRIB. *NELSONIEÆ.*

2. ELYTRARIA, Vahl.

1. **E. crenata,** Vahl, (N. ab E. in DC. Prod. xi. p. 63, cum syn.)—*E. marginata,* Pal. de Beauv. *E. virgata,* N. ab E.; DC. l. c.—C.P. 240.
HAB. Very common.

3. NELSONIA, R. Br.

1. **N. tomentosa,** Willd. (N. ab E. in DC. Prod. xi. p. 65, cum syn.)
HAB. Ceylon, *Walker, in Herb. Hook.*

Mr. Thwaites has never met with this plant.

4. EBERMAIERA, N. ab E.

1. **E. glauca,** N. ab E. in DC. Prod. xi. p. 73, cum syn.; Wight, Ic. t. 1488.—C.P. 2717, 3575.
HAB. Banks of a stream near Batticaloa and Ambagamowa District, not uncommon.

Under *E. glauca* I include *E. Zeylanica, polybotrya, humilis,* and *thyrsoidea* of Nees von Esenbeck, as well as *E. spathulata,* Hassk.—*T. A.*

5. ADENOSMA, N. ab E.

Sect. 1.—*Staminibus quatuor.*

1. **A. balsamea,** Spr. (DC. Prod. xi. p. 68; Wight, Ic. 446.)—C.P. 1996.
HAB. North of the island, *Gardner.*

2. **A. verticillata,** N. ab E. in Wall. Pl. As. Rar.; DC. l. c. p. 69; Wight, Ic. 1524.—C.P. 1995.
HAB. Not uncommon in the hotter parts of the island.

3. **A. uliginosa,** R. Br. (DC. l. c.)
HAB. In rice-fields, *Walker, in Herb. Hook.*

Sect. 2.—*Staminibus duobus.*

4. **A. Thwaitesii,** T. Anders.; *caule* erecto, racemoso; *foliis* obovatis,

Digitized by Google

subpetiolatis, superne tomentosis, subtus glaucis; *floribus* solitariis, in cymis laxis; *bracteis* parvis; *calyce* capsula dimidio breviore; *corolla* minuta, labio inferiore rugis inconspicuis; *staminibus* duobus (*T. A.*).—C.P. 1994.

HAB. Abundant in the Batticaloa District, at no great elevation.

TRIB. *RUELLIEÆ.*

SUBTRIB. 1. *HYGROPHILEÆ.*

6. HYGROPHILA, R. Br.

1. **H. quadrivalvis,** N. ab E. in Wall. Pl. As. Rar. p. 89. (DC. Prod. xi. p. 89, cum syn.)—C.P. 2993.

Var. *salicifolia,* T. Anders.—*H. salicifolia,* N. ab E. l. c. p. 92. (Wight, Ic. t. 1490.)—C.P. 591, 3109.

HAB. Common in the warmer parts of the island.

2. **H. spinosa,** T. Anders.—*Asteracantha longifolia,* N. ab E. in DC. l. c. p. 247, cum syn.; Wight, Ic. t. 449.—C.P. 2900.

HAB. Not uncommon in the warmer parts of the island.

Asteracantha is, in every respect, a true *Hygrophila.*—*T. A.*

SUBTRIB. 2. *EU-RUELLIEÆ.*

7. CALOPHANES, Don.

1. **C. depressa,** T. Anders.—*Dyschoriste,* N. ab E. in DC. Prod. xi. p. 106, cum syn.—C.P. 3537.

HAB. Hot, drier parts of the island.

2. **C. littoralis,** T. Anders.—*Dyschoriste,* N. ab E. in DC. l. c. cum syn.; Wight, Ic. t. 447.—C.P. 1997.

HAB. North of the island, *Gardner.*

8. RUELLIA, Linn.

1. **R. prostrata,** Poir.—*Dipteracanthus prostratus,* N. ab E. in DC. Prod. xi. p. 124, cum syn. *D. dejectus,* N. ab E. in DC. l. c. p. 125.—C.P. 1987.

HAB. Very abundant up to an elevation of 3000 feet.

2. **R. patula,** Jacq.—*Dipteracanthus patulus,* N. ab E. in DC. l. c. p. 126, cum syn.; Wight, Icon. t. 1505.—C.P. 3628.

HAB. Trincomalee, *Rev. S. O. Glenie.*

9. ÆTHEILEMA, R. Br.

1. **Æ. reniforme,** N. ab E. in Wall. Pl. As. Rar.; DC. Prod. xi. p. 261, cum syn.; Wight, Ic. t. 1533.—C.P. 398.

HAB. Not uncommon up to an elevation of 2000 feet.

SUBTRIB. 3. *STROBILANTHEÆ.*

10. STENOSIPHONIUM, N. ab E.

1. **S. Zeylanicum,** T. Anders.; scabrum, erectum; *foliis* petiolatis,

Digitized by Google

serratis; *floribus* confertis; *bracteis* ovatis, acutis, marginibus hispide ciliatis; *corolla* pallide cyanea, glabra; *staminibus* quatnor, didynamis, longe exsertis (*T. A.*).—C.P. 3577.

Var. β; *foliis* marginibus integris.—C.P. 3661.

HAB. Bintenne and Batticaloa Districts, at no great elevation. Var. *a*. Central Province.

2. **S. Russellianum,** N. ab E. in Wall. Pl. As. Rar.; DC. Prod. xi. p. 105; Wight, Ic. t. 873, 1502.—*S. subsericeum*, N. ab E.—C.P. 2001.

HAB. Common in the hot, drier parts of the island. Varies greatly in the amount of pubescence.

11. STROBILANTHES, Blume.

Sect. 1. ENDOPOGON.—*Floribus spicatis.*

† *Staminibus duobus.*

1. **S. consanguineus,** T. Anders.—*Endopogon consanguineus. E. amomum*, N. ab E. in DC. Prod. p. 104. *E. viscosum*, Wight, Ic. t. 1498. *Stenosiphonium diandrum*, N. ab E.—C.P. 2002, partim.

HAB. Maturatte District, at an elevation of 3000 feet.

Valde ramosus, 5–6-pedalis. *Corolla* pallide cyanea.
Very variable in the amount of pubescence.—*T. A.*

2. **S. hypoleucus,** T. Anders.—*Endopogon*, N. ab E. in DC. l. c.—C.P. 2897.

HAB. Central Province, *Gardner*.

3. **S. nigrescens,** T. Anders.; *cauli* erecto, tetragono; *foliis* glabris, ovatis, lanceolatis, utrinque acutis, petiolatis, venis plerumque nigrescentibus; *spicis* hispidis, foliis longioribus; *bracteis* lanceolatis (*T. A.*).—C.P. 3353.

HAB. Ambagamowa District, at an elevation of 3000 feet.

Suffrutex luridus, 4–5-pedalis, ad nodos rufescens. *Corolla* pallide pupurea. *Antherarum* loculi parum dislocati, in anthesin horizontales.—*T. A.*

4. **S. viscosus,** T. Anders.—*Endopogon viscosus, argutus*, et *digitalis*, N. ab E. in DC. l. c. *E. versicolor*, Wight, Ic. t. 1497.—C.P. 2002, partim, et 2898.

HAB. Central Province, up to an elevation of 7000 feet.

Corolla albida.—*G. Thw.*

A very variable species as regards the amount of the glandular pubescence, and in the size of the several parts of the inflorescence.—*T. A.*

5. **S. rhamnifolius,** T. Anders.—*Buterea rhamnifolia*, N. ab E. in D. C. l. c. p. 725. *Endopogon rhamnifolius*, Wight, Ic. t. 1521.—C.P. 2007.

HAB. Hantani District, at an elevation of 4000 feet.

Corolla pallide purpurea.—*G. Thw.*

†† *Staminibus quatuor.*

6. **S. Gardnerianus,** T. Anders.—*Endopogon*, N. ab E. in DC. l. c. p. 723.—C.P. 2006.

HAB. Hantani, at an elevation of 4000 feet.

1–2-pedalis. *Corolla* purpurea.—*G. Thw.*

Digitized by Google

7. **S. scaber,** T. Anders.—*Ruellia aspera,* N. ab E. in DC. l. c. p. 147, cum syn. *Strobilanthes scaber,* var. *β,* Wall. Pl. As. Rar., *fid.* N. ab E.

HAB. Ceylon, *Walker, in Herb. Hook.*

Sect. 2. EU-STROBILANTHES.—*Floribus in strobilis confertis.*

8. **S. Zeylanicus,** T. Anders.; *caule* fruticoso, erecto, quadrangulari, sulcato; *foliis* acutis, subtus scabris, marginibus serratis asperis; *strobilis* axillaribus, pedunculatis; *bracteis* fimbriatis, truncatis, reflexis vel acutis; *corolla* extus tomentosa (*T. A.*).—C.P. 3352.—*Strobilanthes callosus,* N. ab E., partim.

HAB. Ambagamowa District and Kokool Corle, at an elevation of 2000 feet.

3–5-pedalis. *Caulis* subglaber. *Folia* setulis stellatis scabra, elliptica vel ovata, 3–10 unc. longa, 1–4 unc. lata. *Bractea* trapezoidea vel acuta, foliacea, margine setulosa. *Corolla* albida, extus tomentosa.—*T. A.*

9. **S. Walkeri,** N. ab E. DC. l. c. p. 181.—C.P. 2008, 2009, partim, et 3517.

HAB. Central Province, at an elevation of 4000–7000 feet.

2–5-pedalis. *Corolla* albida, vel pallide purpurea. *Antheræ* exsertæ.—*T. A.*
It varies very much in the size of the flowers.

10. **S. Thwaitesii,** T. Anders.; *caule* fruticoso, tetragono, angulis scabris, setulis squamoso; *foliis* ovatis, ovato-lanceolatis, vel ellipticis, acuminatis, marginibus serratis, reflexis, supra asperis, subter hirsutis; *floribus* in capitulis strobiloideis; *pedunculis* axillaribus, tetragonis; *bracteis* lanceolatis, acuminatis, corrugatis, margine ciliatis; *staminibus* inclusis (*T. A.*).—C.P. 2009 partim, 3516.

HAB. Ambagamowa District.

Pedunculi foliis breviores, simplices vel ad apicem trifidi. *Capitula* circiter 3-flora, cernua. *Bracteæ* bullato-corrugatæ, ciliatæ, 7–10 lin. longæ. *Bracteolæ* multo minores, lineares, acutæ, ciliatæ. *Corolla* pollicaris, albida, externe glabra, interne pilosa.—*T. A.*

11. **S. deflexus,** T. Anders.; *caule* glabro; *foliis* ellipticis, caudatis; *pedunculis* axillaribus, solitariis vel binis, deflexis; *bracteis* foliaceis, acutis, glabris, calyce fere ad medium quinque-partito, segmentis lanceolatis; *staminibus* duobus (*T. A.*).—C.P. 1998.

HAB. Hantani, at an elevation of 4000 feet.

Viridis, 4–5-pedalis. *Pedunculi* versus apicem incrassati. *Capitula* 6–8 lin. longa. *Bracteæ* 6–8 interiores cum calycibus involventes. *Bracteolæ* angustissimæ. *Flores* terminales, 2–3. *Calyx* pilosulus. *Corolla* pallide purpurea, 8 lin. longa.—*T. A.*

12. **S. Hookeri,** N. ab E. DC. l. c. p. 185.—C.P. 1999.

HAB. Central Province, at an elevation of 7000 feet.

5–6-pedalis. *Corolla* albida, lobis rotundatis, retusis, ad faucem lineis 3 purpureis longitudinalibus notata. *Stamina* æquilonga, *antheræ* exsertæ.—*T. A.*

13. **S. calycinus,** N. ab E. DC. l.c. p. 186.—C.P. 309.—*S. coloratus,* N. ab E. l. c. p. 186.

HAB. Central Province, at an elevation of 7000 feet.

4–5-pedalis. *Bracteæ* glabræ vel glanduloso-pilosæ. *Corolla* straminea vel plus minus olivacea, lobis brevibus, rotundatis, retusis. *Stamina* æquilonga, antheris exsertis.—*G. Thw.*

Digitized by Google

Closely allied to *S. Hookeri*, but differing from it in having much shorter petioles, smaller hirsute leaves, longer and laxer heads of flowers, and oblong, more membranaceous bracts, as well as in the character of the corolla.—*T. A.*

14. **S. trifidus,** N. ab E. DC. l. c. p. 185.—*S. rugosus*, Wight, Ic. t. 1619, et *S. campanulatus*, t. 1562.—C.P. 254, 2008.—*S. asperrimus, lupulinus, Heyneanus, tener.* (*S. involucratus*, Blume, *fid.* N. ab E.)
HAB. Very abundant up to an elevation of 6000 feet.

An extremely variable plant as regards amount of pubescence, size of the leaves, length of the heads of flowers, etc. In some specimens the bracts are nearly white, more or less tinged with red at the base and green at the tip of each, whilst in others they are of a uniform dull green colour, and harsher texture.—*T. A.*

15. **S. laxus,** T. Anders.; *caule* tereti, glabro; *foliis* petiolatis, ovatis, acuminatis, cordatis, grosse serratis, utrinque subscabris, subtus glandulosis; *strobilis* axillaribus, multifloris, sæpe ramosis, laxis, inferioribus plerumque binis, superioribus solitariis; *bracteis* rotundatis, ovatis, margine ciliatis; *bracteolis* lanceolatis, acutis, ciliatis, calyce brevioribus; *calycis* segmentis lanceolatis, acutis, subæqualibus, inferiore angustiore, fere lineari; *corolla* extus glabra, ad medium quinque-partita, labio inferiore lineis duabus barbatis notato; *lobis* lanceolatis, acutis, reflexis; *staminibus* quatuor exsertis, filamentis æquilongis, linearibus, glabris (*T. A.*).—C.P. 2010.
HAB. Hantani, at an elevation of 4000 feet.

4–6-pedalis. *Folia* 1–2 unc. longa, 1–2 unc. lata. *Petiolus* 1¼ unc. longus. *Strobili* ½–3 unc. longi. *Bracteæ* semipollicares. *Corolla* 9 lin. longa, flavo-rufescens, basi nigro-purpurascens. *Stamina* nigrescentia, *polline* flavo.—*T. A.*

16. **S. vestitus,** N. ab E. in DC. l. c. p. 180.—C.P. 3660.
HAB. Maturatte, at an elevation of 5000–7000 feet.

17. **S. Arnottianus,** N. ab E. in DC. l. c. p. 179.—C.P. 2005.
HAB. Newera Ellia, *Gardner.*

Closely allied to *S. vestitus*, but differing from it in the form of the leaves, and much smaller pilose flowers. Besides, the capsule and style of *S. vestitus* are quite glabrous, while they are hirsute and glandular in *S. Arnottianus.*—*T. A.*

18. **S. caudatus,** T. Anders.; *caule* subterete, subglabro; *foliis* lanceolatis, caudato-acuminatis, lineolatis, subtus ad nervos tomentosis; *pedunculis* axillaribus, simplicibus vel trifidis; *capitulis* 3–6-floris, villosis; *bracteis* lanceolatis, tomentosis; *calycis* segmentis lineari-lanceolatis, æquilongis; *corollæ* lobis brevibus, rotundatis, retusis; *staminibus* inclusis; *antheris* subunilocularibus (*T. A.*).—C.P. 364.
HAB. Hantani, at an elevation of 2000 to 3000 feet.

4–5-pedalis. *Folia* 3–7 unc. longa, 1–1½ unc. lata. *Bracteæ* 4 lin. longæ, ciliatæ. *Corolla* pollicaris, flavide-rubro tincta.

19. **S. adenophorus,** N. ab E. in DC. l. c. p. 182.—C.P. 162.—*Goldfussia myrtinia*, N. ab E. *Myrtinia lanceolata*, Macrae. *Stenosiphonium Moonianum*, Wight et Gardn. *Strobilanthes lanceolatus*, N. ab E.
HAB. Kokool Corle, and Saffragam District.

Calyx semipollicaris, ultra medium tubulosus, segmentis lanceolatis, acutis, ciliatis. *Corolla* pallide cyanea, 1¼ unc. longa; *lobis* subacutis. *Antheræ* sagittatæ, exsertæ. —*T.A.*

Digitized by Google

Nees von Esenbeck has placed this plant once in *Goldfussia* and twice in *Strobilanthes*, and both in *Goldfussia* and *Strobilanthes* has quoted the same number of Macrae, 373.—*T. A.*

20. **S. anceps,** N. ab E. in DC. l. c. p. 189.—C.P. 2000.

Var. *punctatus* (*S. punctatus*, N. ab E. in DC. l. c. p. 182); *foliis* subtus punctatis; *bracteis* utrinque punctatis, ciliatis.—*T. A.*

HAB. Central Province, Saffragam District, at an elevation of 2000 to 6000 feet.

Var. *punctatus*, Walker, in Herb. Hook.

Sect. 3.—*Floribus in paniculis terminalibus caulinibusve.*

21. **S. cerinthoides,** N. ab E. in Herb. Hook.—C.P. 66, 2593, 2594.—*S. argutus*, N. ab E. in DC. l. c. p. 188. *S. sexennis*, N. ab E. in DC. l. c. p. 187.

Var. *a. hirsutissimus*, T. Anders.—C.P. 3626 (*S. hirsutissimus*, N. ab E. in DC. l. c.).

HAB. Very abundant at Newera Ellia, and other of the more elevated parts of the Central Province.

An extremely variable plant as regards amount of pubescence, shape of the leaves, length of the subpanicles of flowers, and relative size of the bracts and flowers.—*T. A.*

22. **S. helicoides,** T. Anders.—*Leptacanthus*, N. ab E. in DC. l. c. p. 170.—C.P. 1980.

HAB. Hantani and Ambagamowa Districts, up to an elevation of 3000 feet.

2–3-pedalis. *Corolla* purpurea; *tubo* parum inflato; *lobis* brevibus, rotundatis.—*G. Thw.*

23. **S. rubicundus,** T. Anders.—*Leptacanthus*, N. ab E. in DC. l. c. —C.P. 3351.

HAB. Saffragam and Ambagamowa Districts.

4–5-pedalis. *Corolla* violacea.—*G. Thw.*

24. **S. pulcherrimus,** T. Anders.—*Leptacanthus Walkeri*, N. ab E. in DC. l. c.; Wight, Ic. t. 1507.—C.P. 266 (301).

HAB. Central Province, at an elevation of 4000 to 7000 feet.

4–5-pedalis. *Paniculæ* terminales caulinæque, cum bracteis calycibusque plus minus rufescentes. *Corolla* violacea, parce curvata, *lobis* rotundatis retusis.—*G. Thw.*

12. DÆDALACANTHUS, T. Anders.

(*Eranthemum*, Wall. partim.)

Calyx minutus, scariosus, 5-dentatus. Corolla hypocraterimorpha; *tubo* gracili, elongato; *limbus* lobis in æstivatione valde contortis. *Stamina* quatuor, didynama, fauce inserta, sterilia brevissima. *Antheræ* biloculares, muticæ, loculis parallelis. *Stigma* subulatum, incurvum, dorso canaliculatum. *Capsula* oblonga, tetrasperma, retinaculis acutis, dissepimentis breviter adnatis. *Semina* subrotunda, compressa, lævia, margine sericea pilis adpressis.—Suffrutices, *bracteis pulcherrime variegatis*; bracteolis *paucis, scariosis*.—*T. A.*

1. **D. montanus,** (var. *a*,) T. Anders. *E. montanum*, Roxb. Var. *a*,

Digitized by Google

N. ab E. in DC. Prod. xi. p. 448; Wight, Ic. t. 466.—C.P. 2003.—*Spicis* laxis; *bracteis* distantibus, lanceolatis, longissime attenuatis.

HAB. Common up to an elevation of 2000 feet.

A variable plant in the length and breadth of bracts, as well as in the amount of pubescence on the spikes.—*T. A.*

SUBORD. 3. *ACANTHIDEÆ.*—*Æstivatio corollæ imbricata vel imbricato-bilabiata. Semina retinaculo uncinato suffulta.*

TRIB. *BARLERIEÆ.*

13. BARLERIA, Linn.

1. **B. bispinosa,** Vahl, (DC. Prod. xi. p. 241.)—C.P. 2013.—*B. spina Ceylanica*, N. ab E. l. c. p. 242.

HAB. Hot, drier parts of the island.

2. **B. Arnottiana,** N. ab E. in DC. l. c. p. 232.—C.P. 682, 310, ambi partim.

HAB. Newera Ellia.

Corolla pallide cyanea.—*G. Thw.*

3. **B. cristata,** Linn. (N. ab E. in Prod. xi. p. 229, cum syn.; Wight, Ic. t. 453.)—*B. dichotoma*, et *B. ciliata*, Roxb. Fl. Ind. *B. Nepalensis*, N. ab E. l. c. p. 228.

HAB. Common in gardens, but never met with truly wild in the island.

Repeated examinations of an extensive set of specimens in the Hookerian Herbarium have convinced me that *B. cristata*, *dichotoma*, *ciliata*, and *Nepalensis*, are forms of one variable species. The differences supposed to exist, in the leaves being stalked in *B. dichotoma* and sessile in *B. cristata*, are not at all constant. The inflorescence varies equally as much, the flowers being solitary in the axils of the leaves, or in short spikes of 4 or 5. The colour of the corolla varies from all shades of white to dark lilac or purple. Roxburgh describes and figures the corolla of his *B. dichotoma* as white.—*T. A.*

4. **B. nutans,** N. ab E. in DC. l. c. p. 227.—C.P. 2011, 2559.

HAB. Central Province, at an elevation of 1000 to 3000 feet.

Corolla cyaneo-purpurea.—*G. Thw.*

5. **B. Prionitis,** Linn. (N. ab E. in DC. l. c. p. 237; Wight, Ic. t. 452.)

HAB. Very abundant in the hotter parts of the island. Nom. vulg. "Kattoo Kurandoo."

This plant is employed as a medicine by the Cinghalese.—*G. Thw.*

6. **B. pentandra,** Arn. (N. ab E. in DC. l. c. p. 232; Wight, Ill. t. 164.)—C.P. 310, 682, partim, et 2558.—*B. involucrata*, N. ab E. in DC. l. c.

HAB. Ambagamowa District.

Corolla cyaneo-purpurea.—*G. Thw.*

B. vestita, T. Anders.; herbacea, hirsuta pilis patentibus; *foliis* ovatis, ellipticis, utrinque attenuatis, petiolatis vel subsessilibus; *cymis* axillaribus terminalibusque, sparsifloris, laxis; *bracteis* angustissime lanceolatis, acutis; *calycis* segmentis inæqualibus, lanceolatis, strigosis, exteriorum superiore acuto, inferiore minute bifido, interioribus acutis,

Digitized by Google

brevioribus; *corolla* anguste infundibuliformi, 3-pollicari, lobis tubo æquilongis (*T. A.*).—C.P. 2004.—*B. pentandra*, β, N. ab E. in DC. l. c. 233.

HAB. Central Province, and in the Saffragam District, up to an elevation of 5000 feet.

6–8-pedalis, hispida. *Folia* integra, 6–12 unc. longa. *Cymæ* longe pedunculatæ, foliis paulo breviores. *Calyx* fulvus, strigosus. *Corolla* pallide purpurea vel albida. —*T. A.*

B. noctiflora and *B. buxifolia*, var. β. The recording of these two plants from Ceylon seems to be an error of Nees von Esenbeck, as no specimen from Ceylon occurs in any of the extensive collections I have consulted. For *B. noctiflora* no authority is quoted by Nees but "Herb. Hook.," and for *B. buxifolia*, var. β, "Forsyth, in Herb. eod.," and I am informed that this botanist made no collections in Ceylon. —*T. A.*

14. CROSSANDRA, Salisb.

1. **C. infundibuliformis,** N. ab E. in Wall. Pl. As. Rar.; DC. Prod. xi. p. 280, cum syn.; Wight, Ic. t. 460, et t. 461.—C.P. 255 (2015), 2016. —*C. axillaris*, *C. oppositifolia*, N. ab E. l. c. (*T. A.*)

HAB. Common in the warmer parts of the island.

15. LEPIDAGATHIS, Willd.

1. **L. Ceylanica,** N. ab E. Ill. Lepidag. (DC. Prod. xi. p. 259. *L. nervosa*, Wight, Ic. t. 1620.)—C.P. 1985. (*T. A.*)

HAB. Not uncommon up to an elevation of 4000 feet.

2. **L. fasciculata,** N. ab E. Ill. Lepidag. (DC. Prod. xi. p. 260.)—C.P. 1983.

HAB. Hot, drier parts of the island.

3. **L. Walkeriana,** N. ab E. in DC. l. c.; Wight, Ic. t. 1530.—C.P. 85, 1986.

HAB. Very common throughout the island.

4. **L. hyalina,** var. α, *lophostachyoides*, N. ab E. Ill. Lepidag. (DC. l. c. p. 252.)—C.P. 1971.—*Spicis* terminalibus, subsolitariis; *filamentis* lineis purpureis transversim notatis (*T. A.*).

HAB. Central Province, at an elevation of 3000 to 4000 feet.

This variety may ultimately prove to be distinct from *L. hyalina*. In the absence of a sufficient number of specimens to decide from, I do not feel justified in making a new species of it.—*T. A.*

TRIB. *ACANTHEÆ.*

16. BLEPHARIS, Juss.

1. **B. molluginifolia,** Juss. (DC. Prod. xi. p. 266, cum syn.)—C.P. 3576.

HAB. Batticaloa District.

2. **B. Boerhaaviæfolia,** Juss. (DC. l. c. cum syn.; Wight, Ic. t. 458.) —C.P. 2014.

HAB. Very abundant in the hot, drier parts of the island. Nom. vulg. "Laawaadaana."

The Cinghalese use the leaves as a vulnerary.—*G. Thw.*

Digitized by Google

17. ACANTHUS, Linn.

1. **A. ilicifolius,** Blume, (DC. Prod. xi. p. 268, cum syn.; Wight, Ic. t. 459.)—C.P. 2018.—*Dilivaria ilicifolia*, Juss.
Var. *a. integrifolius*, T. Anders.—C.P. 2017.
HAB. Common near the sea.

TRIB. *ANDROGRAPHIDEÆ.*

18. ANDROGRAPHIS, Wall.

1. **A. paniculata,** N. ab E. in DC. Prod. p. 515, cum syn.; Wight, Ic. t. 518.)—C.P. 3664 (1981 partim).
HAB. South of the island, not uncommon.

Pedunculi glabri.—*T. A.*

2. **A. alata,** N. ab E. in DC. l. c. p. 516, cum syn.—C.P. 1977.
HAB. Common upon banks, in the hot, drier parts of the island.

Folia linearia, lanceolata, vel oblonga, basi gradatim angustata. *Corolla* albida. *Antheræ* purpureæ.—*G. Thw.*

3. **A. macrobotrys,** N. ab E. in DC. l. c.—C.P. 3578, 1981 partim.
HAB. Near Kandy, not common.

Pedunculi patentim glanduloso-pilosi. *Corolla* pallide purpurea, interne labio inferiore nigro-purpureo albo-marginato. *Antheræ* purpureæ, basi albo-barbatæ.—*G. Thw.*

4. **A. Ceylanica,** N. ab E. in DC. l. c. p. 518; Wight, Ic. t. 1560.
HAB. Ceylon, *Walker, in Herb. Hook.*

5. **A. echioides,** N. ab E. in DC. l. c. cum syn.; Wight, Ic. t. 467.—C.P. 606.
HAB. Very common in the hotter parts of the island.

19. GYMNOSTACHYUM, N. ab E.

1. **G. sanguinolentum,** T. Anders.—*Cryptophragmium sanguinolentum*, cum syn. et *C. axillare*, N. ab E. in DC. Prod. xi. p. 96; Wight, Ic. t. 1496 (*T. A.*).—C.P. 186.
HAB. Very common in forests, up to an elevation of 4000 feet.

Planta tota plus minus purpurascens. *Corolla* violacea.—*G. Thw.*

2. **G. Ceylanicum,** W. Arn. et N. ab E.; DC. Prod. xi. p. 93.—C.P. 2019.
HAB. Shady places, in the hot, drier parts of the island; not uncommon.

Folia superne secus costam venas primariasque albescentia. *Corollæ* tubo pallide purpureo; limbo flavo, externe viridescente. *Antheræ* albidæ.—*G. Thw.*

3. **G. Thwaitesii,** T. Anders.; tomentosum, caule radicante; *foliis* ovatis, obtusis, basi inæqualibus, petiolatis, hirsutis; *paniculis* terminalibus, elongatis, multifloris; *ramulis* oppositis, cymiformibus, laxis; *bracteis* sulcatis (*T. A.*).—C.P. 3356.
HAB. Ambagamowa District.

4. **G. paniculatum,** T. Anders.; *caule* subquadrangulare, sulcato-tomentoso; *foliis* ovatis, subacutis, basi in petiolo attenuatis, pilis ad-

Digitized by Google

pressis hirsutis; *paniculis* terminalibus, multifloris, ramulis multifloris; *floribus* confertis; *calyce* quinque-partito, segmentis brevibus lanceolatis, glandulosis, tomentosis; *corolla* extus subtomentosa, limbo breve, 5-fido, labio inferiore longiore paulo inflato (*T. A.*).—C.P. 2994.

Var. *lævius; foliis* caulibusque glabris.

HAB. Saffragam and Galle Districts, at an elevation of 1000 to 2000 feet.

Sæpe omnino purpurascens, 1½–2-pedale. *Folia* 3–7 unc. longa, 1¼–2½ unc. lata. *Corolla* 7 lin. longa, violacea, limbo interne flavo-virescente. *Antheræ* albidæ.—*T. A.*

5. **G. hirsutum,** T. Anders.; *caule* erecto; *foliis* ovatis, acutis, basi attenuatis, petiolatis, subtus ad venos hirsutis, superne scabris, paniculis terminalibus confertis hirsutissimis; *bracteis* linearibus, ciliatis; *calyce* profunde 5-fido; *segmentis* longe setaceis, hirsute ciliatis; *corolla* calyce æquanti; *limbo* breviter 5-partito; *filamentis* basi paulo hirsutis; *capsula* 8–10-sperma (*T. A.*).

HAB. Central Province, at an elevation of 3000 to 5000 feet.

Purpurascens, 2–3-pedale. *Corolla* flavo-virescens. *Antheræ* albidæ.—*G. Thw.*

TRIB. *JUSTICIEÆ.*

19. JUSTICIA, Linn.

1. **J. Adhatoda,** Linn.—*Adhatoda Vasica,* N. ab E. in DC. Prod. xi. p. 387, cum syn.—C.P. 1991.

HAB. Common. Nom. vulg. "Paawetta."

Used medicinally by the Cinghalese as an expectorant for children.—*G. Thw.*

2. **J. Betonica,** Linn.—*Adhatoda,* N. ab E. in DC. l. c. p. 385. *A. variegata, A. ramosissima, A. Nilgherrica, A. trinervia, A. areneria,* N. ab E. in DC. l. c. p. 385, 386, 387.

HAB. Very abundant. Nom. vulg. "Soodoo-pooroo-gass."

A. Nilgherrica, Wight, Ic. t. 1544, *A. trinervia,* and *A. arenaria,* are merely stunted states of *J. Betonica;* with a complete suite of specimens it is impossible to distinguish them.—*T. A.*

3. **J. Tranquebariensis,** Linn.—*Adhatoda,* N. ab E. in DC. l. c. p. 399, cum. syn.; Wight, Ic. t. 462.—C.P. 1993.

HAB. Hot, drier parts of the island.

Corolla albida vel rubra, fauce rubro maculata.—*G. Thw.*

4. **J. Ceylanica,** T. Anders.—*Adhatoda,* N. ab E. in DC. l. c. p. 400, cum syn.—C.P. 2422, 2718, 3110 (713 partim).

HAB. Not uncommon up to an elevation of 3000 feet.

5. **J. Hookeriana,** T. Anders.—*Adhatoda,* N. ab E. in DC. l. c. p. 403.—C.P. 701. *Leptostachya Zeylanica,* N. ab E. partim.

HAB. Very abundant on the banks of streams in the Central Province.

Bracteæ lineares vel subspathulatæ.—*G. Thw.*

Macrae's plant in Herb. Benth. n. 423, quoted by Nees von Esen. as *Leptostachya Zeylanica,* is this species.—*T. A.*

6. **J. Gendarussa,** Linn.—*Gendurussa vulgaris,* N. ab E. in DC. l. c. p. 410, cum syn.—C.P. 3662.

HAB. Common. Nom. vulg. "Kalos-waaraneya."

Digitized by Google

7. **J. glabra,** Kœnig.—*Rhaphidospora,* N. ab E. in DC. l. c. p. 499, cum syn.; Wight, Ic. 1554.—C.P. 2718, 3663 (713 partim).
HAB. Common in the Central Province.

20. RHINACANTHUS, N. ab E.

1. **R. communis,** N. ab E. in Wall. Pl. As. Rar. iii. p. 109; DC. Prod. xi. p. 442; Wight, Ic. t. 464.—*R. Rottlerianus,* N. ab E. l. c.—C.P. 1982.
HAB. Very abundant in the hotter parts of the island.

21. ROSTELLULARIA, Reichen.

1. **R. Royeniana,** N. ab E. in DC. Prod. xi. p. 373, cum syn.—*R. rotundifolia,* N. ab E. in DC. l. c. p. 370. *R. procumbens,* N. ab E. l. c. p. 371, et Wight, Ic. t. 1539. *R. Abyssinica,* Brongn. *R. mollissima,* N. ab E. l. c. p. 373. *R. crinita,* N. ab E. l. c. *R. simplex,* Wight, Ic. t. 1542 (*T. A.*).—C.P. 142, 228, 404, 2904, 509.
HAB. Very abundant throughout the island.

I have failed in finding any character by which to separate these species even as varieties; I am therefore forced to consider them as states of one very variable species.—*T. A.*

2. **R. diffusa,** N. ab E. in Wall. Pl. As. Rar.; DC. l. c. 371, cum syn. —C.P. 1976, 1992.
HAB. Common in the hot, drier parts of the island.

22. PERISTROPHE, N. ab E.

1. **P. tinctoria,** N. ab E. in Wall. Pl. As. Rar.; DC. Prod. xi. p. 493, cum syn.
HAB. Ceylon, *Walker, in Herb. Hook.*

23. MONOTHECIUM, Hochst.

1. **M. aristatum,** T. Anders.—*Anthocometes aristatus,* N. ab E. in DC. Prod. xi. p. 312, cum syn.—C.P. 1984.
HAB. Hot, drier parts of the island; not very common.

Corolla albida, *labio* inferiore fauce rufo maculato.—*G. Thw.*

24. RUNGIA, N. ab E.

1. **R. parviflora,** N. ab E. in Wall. Pl. As. Rar. (DC. Prod. xi. p. 469, cum syn.)—*R. pectinata,* N. ab E. in DC. l. c. p. 470; Wight, Ic. t. 1547. *R. muralis,* Royle. *R. polygonoides,* N. ab E. in Wall. Pl. As. Rar.; DC. l. c. p. 471. *R. origanoides,* N. ab E. in Wall. Pl. As. Rar.; DC. l. c. (*T. A.*).—C.P. 257, 1975, 3354, 3357.
HAB. Very abundant up to an elevation of 7000 feet.

Like most of the species of this genus, this plant varies much in the size and shape of the leaves and the form of the spikes of flowers, as well as in the extent of the scarious margin of the bracts, and also in the extent of ciliæ on the calyx-segments. —*T. A.*

Digitized by Google

2. **R. repens,** N. ab E. in Wall. Pl. As. Rar.; DC. l. c. p. 472, cum syn.; Wight, Ic. t. 465.—C.P. 257, 1972, 1973, 1974, 2935.

HAB. Very common in the hot, drier parts of the island.

Like the preceding species, this is very variable. There is a state of it from the Central Province in which the bracts are acutely lanceolate, and their scarious margin nearly absent.—*T. A.*

3. **R. longifolia,** N. ab E. et W. Arn. in DC. l. c. p. 471.—*R. latior,* N. ab E.; DC. l. c. p. 472.—C.P. 89, 257, 301, 686, 708, 1974, 3355.

HAB. Ramboda and Adam's Peak.

25. DICLIPTERA, Juss.

1. **D. bivalvis,** Juss. in Ann. Mus. (DC. Prod. xi. p. 475.)—*D. Zeylanica,* N. ab E. in DC. l. c. 474.—C.P. 399, 2576.

HAB. Not uncommon on shaded banks, in the hot, drier parts of the island.

C.P. 2576 is the normal state of this species; C.P. 399 is probably only a stunted condition of it.—*T. A.*

26. ERANTHEMUM, Linn.

1. **E. crenulatum,** Wall. in Bot. Reg. t. 879 (DC. Prod. xi. p. 453.) —C.P. 1703, 1979.

HAB. Not uncommon.

2. **E. Ecbolium,** T. Anders.—*Justicia,* Linn.; N. ab E. in DC. l. c. p. 426, cum syn.; Wight, Ic. t. 463. *J. gymnostachya,* N. ab E. in DC. l. c. *J. lætevirens,* Vahl, En. i. p. 118? *J. strobilifera,* Lam. Ill. i. p. 36? *J. emarginata,* N. ab E. in DC. l. c. p. 427. *J. rotundifolia,* N. ab E. in Wall. Pl. As. Rar. iii. p. 108. *J. syringifolia,* Vahl, En. i. p. 117? *J. livida,* Wall. Cat. n. 2482 c. *J. dentata,* Klein. (*T. A.*).—C.P. 1978.

HAB. Common in the hot, drier parts of the island; a very variable and widely diffused plant.

27. PTYSSIGLOTTIS, T. Anders.

Calyx profunde 5-partitus, æqualis. *Corolla* infundibuliformis; *limbus* 5-partitus, *labio* inferiore longitudinaliter plicato, *lobis* lateralibus externis in æstivatione. *Stamina* duo. *Antheræ* biloculares, loculis parallelis, muticis, ovatis. *Stigma* capitatum, clavatum, obtusum. *Capsula* basi dissepimentis adnatis, apice tetrasperma. *Semina* discoidea, minute tuberculata (*T. A.*).

1. **P. radicosa,** T. Anders.—*Rhytiglossa radicosa,* N. ab E. in DC. Prod. xi. p. 344. *Rostellularia sarmentosa,* Zollinger, Pl. Jav.; DC. l. c. p. 370 (*T. A.*).—C.P. 3538.

HAB. Hot, drier parts of the island.

Corolla albida, 6 lin. longa, labio superiore bipartito; *segmentis* oblongis, subacutis, inferiore tripartito, segmentis rotundatis.—*G. Thw.*

28. ASYSTASIA, Blume.

1. **A. Gangetica,** T. Anders.—*A. Coromandeliana,* N. ab E. in Wall.

Digitized by Google

Pl. As. Rar.; DC. Prod. xi. p. 165, cum syn.; Wight, Ic. t. 1506. *A. plumbaginea*, N. ab E. in Wall. Pl. As. Rar. *A. quaterna*, N. ab E. in DC. l. c. p. 166. *A. intrusa*, N. ab E. in DC. l. c. *A. calycina*, Benth. Fl. Niger. p. 478. *A. Bojeriana*, N. ab E. in DC. l. c. *A. Comorensis*, Bojer; DC. l. c. (*T. A.*)—C.P. 1998.

HAB. Very abundant in the hotter parts of the island.

The extensive distribution of this species over tropical Asia and Africa renders the specific name adopted by Nees von Esenbeck quite inappropriate; and the same objection may be made to the original one given by Linnæus, and which, as being the oldest, I have revived. For so cosmopolitan a plant the specific term *communis* or *vulgaris* would perhaps be more suitable. The notes by Mr. Bentham to the *Asystasiæ* of the 'Flora Nigretiana' show that I have the best authority for the greater part of the identifications I have made of this variable species.—*T. A.*

2. **A. chelonoides,** N. ab E. in Wall. Pl. As. Rar.; DC. l. c. p. 164, cum syn.—*A. nemorum*, N. ab E. l. c. et DC. l. c. p. 167, cum syn. (*T. A.*).—C.P. 552, 1989.

HAB. Very abundant up to an elevation of 3000 feet.

Mr. Thwaites observes that the somewhat procumbent habit, smaller flowers and shorter pedicels, seem sufficiently to distinguish *A. nemorum* from *A. chelonioides*, and that when growing they look very different; but I have been unable to find any sufficient characters amongst the large series of specimens contained in the Hookerian Herbarium, and moreover Nees and others have partially united them.—*T. A.*

CXVIII. LABIATÆ.

TRIB. *OCIMOIDEÆ.*

1. OCIMUM, Linn.

1. **O. canum,** Linn. (Benth. in DC. Prod. xii. p. 32, cum syn.)—C.P. 3624.

HAB. Very abundant in waste ground about native gardens. Nom. vulg. "Heen-talla."

O. Basilicum, Linn., is very common as a cultivated plant in native gardens. Is it really specifically distinct from *O. canum?*

2. **O. gratissimum,** Linn. (Benth. l. c. p. 34, cum syn.)—C.P. 2062.

HAB. Common in the warmer parts of the island.

3. **O. suave,** Willd. (Benth. l. c. p. 35, cum syn.)—C.P. 3623.

HAB. Ambagamowa; not common.

4. **O. sanctum,** Linn. (Benth. l. c. p. 38, cum syn.)—*O. tenuiflorum*, Linn.; Benth. l. c. p. 39.—C.P. 249.

HAB. Common in waste places. Nom. vulg. "Madooroo-tallu."

Much used as a medicine by the Cinghalese.

2. GENIOSPORUM, Wall.

1. **G. elongatum,** Benth. Lab. p. 21 (DC. Prod. xii. p. 45.)—C.P. 2080.

HAB. Common in grassy places in the Central Province, at an elevation of 4000 to 6000 feet.

Digitized by Google

2. **G. prostratum,** Benth. in Wall. Pl. As. Rar. ii. p. 18; DC. l. c.—C.P. 2079.

Var. *β. gracile.—G. gracile,* Benth. Lab. p. 21; DC. l. c.—C.P. 2078 (2081).

HAB. Warmer parts of the island; not uncommon.

I can find no constant character to distinguish *G. gracile* from *G. prostatum,* and they appear to pass insensibly into one another.

3. MOSCHOSMA, Reich.

1. **M. polystachyum,** Benth. in Wall. Pl. As. Rar. ii. p. 13; DC. Prod. xii. p. 48, cum syn.—C.P. 2056.

HAB. Hotter parts of the island, not uncommon.

4. ORTHOSIPHON, Benth.

1. **O. diffusus,** Benth. in DC. Prod. xii. p. 50.

HAB. Ceylon, *Walker, in Herb. Hook.*

2. **O. glabratus,** Benth. in Wall. Pl. As. Rar. ii. p. 14; DC. l. c. cum syn.—C.P. 2059.

HAB. Common in the hot, drier parts of the island.

This varies very much in the size of the flowers.

5. PLECTRANTHUS, L'Her.

1. **P. capillipes,** Benth. in DC. Prod. xii. p. 57.—C.P. 2064.

HAB. Central Province, at an elevation of 3000 to 5000 feet.

Corolla alba, labio inferiore rubro-maculato.

2. **P. nigrescens,** Benth. Lab. p. 710; DC. l. c. p. 58.—*P. Walkeri,* Benth. l. c. *P. scabrellus,* Benth. l. c. *P. hians,* Benth. l. c. p. 57.—C.P. 90, 425 (461, 583, 687, 2060, 2061).

HAB. Central Province, at an elevation of 4000 to 7000 feet.

Corolla alba, rubro-maculata.

A most variable plant, as regards the size and shape of the leaves, and the amount of pubescence.

3. **P. Coetsa,** Don, (Pr. Fl. Nep. p. 117; Benth. l. c. p. 58.)—*P. menthoides,* Benth. l. c. p. 59. *P. Macræi,* Benth. l. c.; Wight, Ic. t. 1430.—C.P. 2063.

HAB. Central Province, at an elevation of 4000 to 6000 feet.

4. **P. subincisus,** Benth. in Wall. Pl. As. Rar. ii. p. 16; DC. Prod. xii. p. 66.—C.P. 2890.

HAB. Ceylon, *Macrae.*

I have never met with this species in a growing state, and there is no record of whence the very indifferent specimen in the Herbarium was obtained.

5. **P. Gardneri,** Thw.; *caule* herbaceo, breve piloso, basi decumbente; *foliis* ovatis vel rotundatis, grosse dentatis vel subincisis, crenatis, minute ciliatis, superne villosulis, subtus glanduloso-punctatis, basi subacutis, petiolo longiusculo nervisque tomentellis; *racemis* elongatulis, glanduloso-tomentellis, parce ramosis; *verticillastris* distantibus, 4–6-floris; *bracteis* minutis, ciliatis; *pedicellis* calyce fructifero nutante subæquilongis.—C.P. 16 (84, 264).

Digitized by Google

HAB. In damp, shady places, as Newera Ellia and other of the more elevated parts of the Central Province.

1–2-pedalis, plus minus rufescens. *Calyx fructifer* subglaber, prominentim parce reticulatus, 2 lin. longus, dente supremo rotundato, obtuso, inferioribus lanceolatis, infimis subulato-acuminatis. *Corolla* purpurea, calyce duplo longior, lacinia infima porrecta concava. (*P. Sieberi* affinis, *H. f.*)

6. **P. Zeylanicus,** Benth. Lab. p. 36; DC. l. c.—C.P. 2083.
HAB. Rambodde, in the Central Province, *Gardner*. Nom. vulg. "Ereeweriya."

This is commonly cultivated in native gardens as a medicinal plant, but I have never found it truly wild.

Plect. tuberosus, Blume (*Coleus tuberosus* and *C. parviflorus*, Benth.), is cultivated by the Cinghalese for the sake of its tuberous roots, which are eaten as a vegetable.

6. COLEUS, Lour.

1. **C. barbatus,** Benth. in Wall. Pl. As. Rar. ii. p. 15; DC. Prod. xii. p. 71, cum syn.; Wight, Ic. t. 1432.—C.P. 2069.
HAB. Common on rocky places in the Oovah District, at an elevation of 2000 to 5000 feet.

2. **C. Malabaricus,** Benth. in Wall. Pl. As. Rar. ii. p. 16; DC. l. c. p. 76, cum syn.—*C. ovatus*, Benth. in DC. l. c. *C. Macræi*, Benth. l. c. p. 77. *C. Walkeri*, Benth. l. c. *C. leptostachys*, Benth. l. c. *C. mollis*, Benth. l. c.—C.P. 17, 2066, 2995, 3435 (2067).
HAB. Common in damp, bushy places, up to an elevation of 6000 feet.

A most variable species as respects amount of pubescence, size and form of the leaves and of the inflorescence; and the several forms run so insensibly into one another that I am quite unable to separate them satisfactorily, even as distinct varieties.

3. **C. inflatus,** Benth. Lab. p. 58; DC. Prod. xii. p. 78.—*C. Benthamianus*, Arn. in Nov. Act. Nat. Cur. xviii. p. 354; Benth. in DC. l. c.—C.P. 2065.
HAB. Abundant at Newera Ellia, Horton Plains, etc., at an elevation of 6000 to 8000 feet.

Col. aromaticus, Benth. (nom. vulg. "Kopprawalleya") is cultivated by the Cinghalese as a medicine for cattle. *C. Blumei*, Benth., with its variety *C. laciniatus*, Benth., is a common ornamental plant in the island.

7. ANISOCHILUS, Wall.

1. **A. carnosus,** Wall. Pl. As. Rar. ii. p. 18; Benth. in DC. Prod. xii. p. 81, cum syn.—C.P. 2055.
HAB. Warmer parts of the island, not very common. Nom. vulg. "Gal-kopprawalleya."

2. **A. paniculatus,** Benth. l. c. p. 82.
HAB. Ceylon, *Walker, in Herb. Hook.*

3. **A. suffruticosus,** Wight, Ic. t. 1437.—C.P. 3573.
HAB. Gunner's Quoin, in the Batticaloa District.

In the present plant the spikes of flowers are much shorter, the leaves are tomentose (not villous), and not so crowded together as in the plant figured by Dr. Wight, but from their general similarity I think they are no doubt forms of one species.

Digitized by Google

TRIB. *SATUREIEÆ.*

8. POGOSTEMON, Desf.

1. **P. Heyneanus,** Benth. in Wall. Pl. As. Rar. i. p. 31; DC. Prod. xii. p. 153, cum syn.; Wight, Ic. t. 1440.—C.P. 33 (2073, 2401).
HAB. Common throughout the island. Nom. vulg. "Gang-Kolang-kola."

The leaves of this plant are used by the Cinghalese medicinally, as a sternutatory.

2. **P. rupestris,** Benth. Lab. p. 156; DC. l. c. p. 154.—C.P. 343.
Var. β. *hirsutus.*—*P. hirsutus,* Benth. in DC. l. c.—C.P. 283.
HAB. Central Province, at an elevation of 5000 to 8000 feet.

Although the extreme forms of var. α and β of this species look very distinct, they are so completely connected by intermediate ones that I find it quite impossible to discover any constant character by which to separate them. The plant figured by Dr. Wight (Ic. t. 1442) under the name of *P. hirsutus* must certainly be, as he himself suspects, quite a distinct species.

3. **P. reflexus,** Benth. in DC. l. c. p. 155.—C.P. 154.
HAB. The more elevated parts of the Central Province, not very common.

9. DYSOPHYLLA, Blume.

1. **D. auricularia,** Bl. (Benth. in DC. Prod. xii. p. 156, cum syn.; Wight, Ic. t. 1445.)—C.P. 26.
HAB. Very common on the borders of paddy-fields. Nom. vulg. "Haamanilla."

2. **D. verticillata,** Benth. in Wall. Pl. As. Rar. i. p. 30; DC. l. c. p. 157, cum syn.—*D. crassicaulis,* Benth. l. c. p. 158. *D. tetraphylla,* Wight, Ic. t. 1444.—C.P. 2082.
HAB. Hotter parts of the island, not uncommon.

10. MENTHA, Linn.

1. **M. arvensis,** Linn. (Benth. in DC. Prod. xii. p. 171, cum syn.)—*M. Javanica,* Blume; Benth. l. c. cum syn.—C.P. 2077.
HAB. Borders of paddy-fields, in the Central Province. Nom. vulg. "Odoo-talan."

11. CALAMINTHA, Benth.

1. **C. Clinopodium,** Benth.—Var. *umbrosa,* H. f. MS. *C. umbrosa,* Benth. in DC. Prod. xii. p. 232. *C. repens,* Benth. l. c. p. 233, cum syn. *Melissa umbrosa,* Wight, Ic. t. 1447.—C.P. 2058.
HAB. Newera Ellia.

TRIB. *STACHYDEÆ.*

12. SCUTELLARIA, Linn.

1. **S. violacea,** Heyne, (Wall. Pl. As. Rar. i. p. 66; Benth. in DC. Prod. xii. p. 418, cum syn.; Wight, Ic. t. 1449.)—*S. floribunda,* Benth. l. c. *S. robusta,* Benth. l. c.—C.P. 217, 2716 (527).

Digitized by Google

Var. β; *tota planta* glabra vel subglabra; *foliis* acutius dentatis.—An *S. oblonga*, var. γ, Benth. l. c.?—C.P. 3370.

Var. γ; *caule* repente, radicante, patentim piloso; *foliis* rotundatis, subacutis, crenatis, villosulis; *floralibus* majoribus quam in var. *a* et β.—C.P. 302.—An species distincta?

HAB. Very common in the Central Province, up to an elevation of 7000 feet. Var. γ. Horton Plains.

A very variable plant in the size of the flowers and in the amount and character of the pubescence, which latter upon the racemes varies from very glandular to being nearly or quite free from glands. Var. γ may possibly prove to be a distinct species, but I am disposed to believe it to be only a variety.

2. **S. oblonga,** Benth. l. c.—C.P. 2057.

HAB. Common on the rocky margins of streams in the Central Province, up to an elevation of 7000 feet.

All my specimens have the leaves with their base narrowed gradually into the petiole, and therefore belong to Bentham's var. β of this species, and which would seem to be the typical form of it.

13. ANISOMELES, R. Br.

1. **A. ovata,** R. Br. in Ait. Hort. Kew.; Benth. in DC. Prod. xii. p. 455, cum syn.; Wight, Ic. t. 865.—C.P. 2072.

HAB. Very common up to an elevation of 3000 feet. Nom. vulg. "Yakwanassa."

2. **A. Malabarica,** R. Br. in Bot. Mag. t. 2071; Benth. l. c. p. 456, cum syn.; Wight, Ic. t. 864.—C.P. 3572.

HAB. Hot, drier parts of the island.

14. LEUCAS, Benth.

1. **L. mollissima,** Wall. Pl. As. Rar. i. p. 62; Benth. in DC. Prod. xii. p. 525.—*L. pilosa*, Benth. in Wall. l. c.—C.P. 2075.

HAB. North of the island, *Gardner*.

I suspect that this is a mere state or variety of the following species, as the difference between the two plants is scarcely sufficient to be considered specific.

2. **L. marrubioides,** Desf. (Benth. in DC. Prod. xii. p. 528.)—C.P. 2071.

HAB. Very common in the warmer parts of the island. Nom. vulg. "Sooddoo-toomba."

3. **L. pubescens,** Benth. Lab. p. 610; DC. Prod. p. 528.—An *L. angularis*, Benth. in Wall. Pl. As. Rar. i. p. 62; DC. Prod. p. 526?

HAB. Ceylon, *Macrae* (Herb. Hook.).

The species of this genus being so variable, may not this be a form only of the preceding?

4. **L. procumbens,** Desf. (Benth. in DC. Prod. xii. p. 527.)—*L. biflora*, Br.; Benth. l. c.; Wight, Ic. t. 866.—C.P. 2053, 2074.

HAB. Very abundant throughout the island, from the level of the sea up to 8000 feet.

Tota planta molliter pubescens vel strigosula. *Calyx* omnino pubescens vel inter costas glaber, 3–4 lin. longus.

5. **L. Zeylanica,** R. Br. (Prod. p. 504; Benth. l. c. p. 531.)—*L. as-*

Digitized by Google

pera, Spr. Benth. l. c. p. 532. *L. diffusa,* Benth. l. c. cum syn. *L. hyssopifolia,* Benth. l. c. *L. Walkeri,* Benth. l. c.—C.P. 2076.

Cf. *L. dimidiata,* Spr., and *L. linifolia,* Spr.

HAB. Very common throughout the island. Nom. vulg. "Gatta-toomba."

A most variable species. The Cinghalese use the leaves as a medicine, and in some parts of the island, I am told, as a vegetable in their curries.

15. LEONOTIS, R. Br.

1. **L. nepetæfolia,** R. Br. (Prod. p. 504; Benth. in DC. Prod. xii. p. 535, cum syn.; Wight, Ic. t. 867.)—C.P. 2070.

HAB. Hot, drier parts of the island. Nom. vulg. "Maha-yakwan-assa."

TRIB. *AJUGEÆ.*

16. TEUCRIUM, Linn.

1. **T. tomentosum,** Heyne, (Benth. in Wall. Pl. As. Rar. i. p. 58; DC. Prod. xii. p. 582; Wight, Ic. t. 1458.)—C.P. 212.

HAB. Central Province, at an elevation of 5000 to 7000 feet.

CXIX. VERBENACEÆ.

TRIB. *VERBENEÆ.*

1. BOUCHEA, Cham.

1. **B. Hyderabadensis,** Walp. Rep. iv. p. 12; Schauer in DC. Prod. xi. p. 559, cum syn.; Wight, Ic. t. 1462.—C.P. 3574.

HAB. On an open grassy spot between Madamahanewera and Alootnewera, in the Central Province.

1–2-pedalis. *Corolla* roseo-purpurea, 8–9 lin. in exp., ad faucem minute pilosula et intensius colorata; *lobis* oblongis rotundatis, inferiore latiore, sæpe retuso. *Antherarum* 2 superiores parum majores. *Stylus* apicem prope abrupte deflexus. *Stigma* parvum. *Cocci* lineares, 4 lin. longi, membranaceo-marginati, externe striati, interne minute tuberculati.

2. STACHYTARPHA, St.

1. **S. Indica,** Vahl, Enum. i. p. 206; Sch. in DC. Prod. xi. p. 564.—C.P. 3153.

HAB. Very common throughout the island. Nom. vulg. "Balloona-koota."

S. JAIMAICENSIS is a very common weed in cultivated ground, having become quite naturalized in the island.

3. LIPPIA, Linn.

1. **L. nodiflora,** Rich. (Sch. in DC. Prod. xi. p. 585, cum syn.; Wight, Ic. t. 1463.)—C.P. 1947.

HAB. Very abundant near the sea. Nom. vulg. "Herimanadatta."

Digitized by Google

4. LANTANA, Linn.

1. **L. alba,** Mill. (Sch. in DC. Prod. xi. p. 606, cum syn.)—*Lantana Indica,* Roxb.; Wight, Ic. t. 1464.—C.P. 498.

HAB. Near Galagama, in the Central Province.

Corolla (in meis specimin.) pallide purpurea.

L. MIXTA, Linn. (*L. aculeata,* Hort.), introduced into the island about thirty-five years ago, has become not only quite naturalized, but covers many hundred acres of uncultivated land in many parts of the island. *Lant. trifolia,* Linn., is also not an uncommon weed in cultivated ground.

TRIB. *VITICEÆ.*

5. SYMPHOREMA, Roxb.

1. **S. involucratum,** Roxb. (Sch. in DC. Prod. xi. p. 621; Wight, Ic. t. 362.)—C.P. 3645.

HAB. Near Trincomalie, *Rev. S. O. Glenie.*

6. PREMNA, Linn.

1. **P. purpurascens,** Thw.; scandens; *ramulis* teretibus, striatis; *foliis* glabris, oblongis, abrupte breve et obtuse acuminatis, subcordatis, subtus minutissime reticulatis, petiolatis; *paniculis* tomentellis, terminalibus, divaricato-corymbosis, multifloris, laxis; *floribus* minutis; *calyce* subintegro; *corolla* subæqualiter 4-loba, lobis rotundatis, reflexis; *staminibus* exsertis, filamentis æqualibus, fauce insertis.—*Phænicanthus Zeylanicus,* Thw. in Herb. Hook.—C.P. 2698.

HAB. Ambagamowa District, at no great elevation.

Folia 3–6-poll. longa, 1½–3 poll. lata, læte viridia, venis cum petiolo ½–2 poll. longo purpurascentibus. *Paniculæ* folio multum breviores, purpureæ. *Corolla* pallide purpurea.

2. **P. serratifolia,** Linn. (Sch. in DC. Prod. xi. p. 632, cum syn.)—*P. integrifolia,* Linn.; Wight, Ic. t. 1469.—C.P. 1953.

HAB. Very common in the hotter parts of the island. Nom. vulg. "Middee-gass."

The root of this plant is used medicinally by the Cinghalese.

3. **P. latifolia,** Roxb. Fl. Ind. iii. p. 76; Sch. l. c. p. 635; Wight, Ic. t. 869.—An *P. viburnoides,* Wall. Sch. l. c.?—C.P. 2893.

HAB. Trincomalie, *Rev. S. O. Glenie.* Caltura. Nom. vulg. "Middee-gass."

Like the preceding, of which this is possibly merely a variety, the present plant is employed as a medicine by the natives.

4. **P. micrantha,** Schauer, l. c.?—An *P. mucronata,* Roxb. Sch. l. c.?—C.P. 2541.

HAB. Maturatte District.

Arborea, 8–10-pedalis. *Ramuli juniores* pubescentes. *Folia* integra vel irregulariter serrata, basi angustata vel rotundata, superne puberula, subtus cum petiolo pubescentia. *Corolla* flavida, interne fulvo-tincta.

Though this does not quite agree with the description of either of the two species quoted above, it is not improbably one of them; and I hesitate, with the materials I have, to describe it under a new specific name.

Digitized by Google

5. **P. tomentosa,** Willd. (Sch. in DC. l. c. p. 634, cum syn.; Wight, Ic. t. 1468.)—C.P. 747.
HAB. Common up to an elevation of 3000 feet. Nom. vulg. "Boo-sairoo-gass."

6. **P. procumbens,** Wall. (Sch. l. c. p. 636.)—C.P. 325.
HAB. Hotter parts of the island, not uncommon.

7. **P. cordifolia,** Roxb. Fl. Ind. iii. p. 78; Sch. l. c. p. 632; Wight, Ic. t. 1483.—C.P. 193.
HAB. Hot, drier parts of the island.

Folia subglabra vel subtus tomentosa. *Corolla* flavida, plus minus rubro tincta.

7. CALLICARPA, Linn.

1. **C. Wallichiana,** Walp. Rep. iv. p. 125; Sch. in DC. Prod. xi. p. 641, cum syn.; Wight, Ic. t. 1480.—C.P. 722.
HAB. Very common up to an elevation of 4000 feet. Nom. vulg. "Eela-gass."

8. CLERODENDRON, Linn.

1. **C. inerme,** R. Br. in Ait. Hort. Kew.; Sch. in DC. Prod. xi. p. 660, cum syn.—C.P. 1949.
HAB. Very common near the sea. Nom. vulg. "Wal-gooranda."

2. **C. phlomoides,** Linn. (Sch. l. c. p. 663, cum syn.; Wight, Ic. t. 1473.)—C.P. 1950.
HAB. Hotter parts of the island, not very common.

3. **C. serratum,** Spr. (Sch. l. c. p. 664, cum syn.; Wight, Ic. t. 1472.)—C.P. 1951.
HAB. Not uncommon up to an elevation of 2000 feet. Nom. vulg. "Ken-handa."

4. **C. Linnæi,** Thw.—An *Volkameria scandens,* Linn. f. Supp. p. 292; Sch. l. c. p. 657?—C.P. 1948.
HAB. Hot, drier parts of the island.

Scandens. *Ramuli juniores* subteretes, pilosi. *Folia* obovato-rotundata, subcordata, apiculata, superne pilosula, subtus pallidiora, glanduloso-punctata et præcipue ad nervos pilosa, 2–3 poll. longa. *Petiolo* 2–3 lin. longo. *Paniculæ* terminales, foliosæ, corymbiformes, compactæ, incano-pilosæ. *Pedicelli* subnulli. *Calyx* hypocrateriformis, breve 5-dentatus, in anthesi 1½ lin. longus. *Corolla* alba, externe pilosa, *tubo* 3 lin. longo, *limbo* 5 lin. in exp., lobis oblongis obtusis, inferiore parum longiore. *Filamenta* valde elongata.

This is most probably, I think, *Volk. scandens,* Linn. f.; but, as the description of the latter does not quite accord with our plant, and as the name of *Cler. scandens* has been applied by Palisot de Beauvois to another species of the genus, I have thought it best to call the present *Cler. Linnæi.*

5. **C. infortunatum,** Linn. (Sch. l. c. p. 667, cum syn.; Wight, Ic. t. 1471.—C.P. 2894.
HAB. Not uncommon in damp forests, up to an elevation of 5000 feet. Nom. vulg. "Gas-pinna."

C. SIPHONANTHUS, R. Br., is common in gardens, but is not truly indigenous.

Digitized by Google

9. **GMELINA,** Linn.

1. **G. Asiatica,** Linn. (Sch. in DC. Prod. xi. p. 679, cum syn.)—*G. parvifolia,* Roxb. Pl. Cor. ii. t. 162; Sch. l. c. cum syn.—C.P. 1952.
HAB. Very common up to an elevation of 2000 feet. Nom. vulg. "Gatta-demmata."

2. **G. Rheedei,** Hook. Bot. Mag. t. 4395; Walp. Ann. iii. p. 239.—*G. arborea,* Wight, Ic. t. 1470.—An *G. arboreæ,* Roxb., var.?—C.P. 128 (698).
HAB. Common up to an elevation of 5000 feet. Nom. vulg. "At-demmata."

Arbor ingens, 40–50-pedalis, patula.
The bark and roots of this and the preceding species are used medicinally by the Cinghalese.

10. **VITEX,** Linn.

1. **V. trifolia,** Linn. (Sch. in DC. Prod. xi. p. 683, cum syn.)—C.P. 1955.
HAB. Near the sea, not uncommon.

2. **V. Negundo,** Linn. (Sch. l. c. p. 684, cum syn.; Wight, Ic. t. 519.)—C.P. 1956.
HAB. Common on the banks of rivers and streams, up to an elevation of 3000 feet. Nom. vulg. "Sooddoo-nikka-gass."

3. **V. altissima,** Linn. f. (Sch. l. c. p. 685, cum syn.; Wight, Ic. t. 1466.)—An *V. alata,* Heyne, Sch. l. c.?—C.P. 1958.
HAB. Common in forests, up to an elevation of 3000 feet. Nom. vulg. "Mililla-gass," "Meeyan-mililla-gass."

Folia subglabra vel subtus molliter pubescentia, *petiolo* sæpe plus minus alato.
This tree produces one of the most valuable timbers in the island for building and other purposes.

4. **V. pubescens,** Vahl, (Sch. l. c. cum syn,; Wight, Ic. t. 1465.)
HAB. Ceylon, *Walker,* (*Herb. Hook.*)

5. **V. leucoxylon,** Linn. f. (Sch. l. c. p. 692, cum syn.; Wight, Ic. t. 1467.)—*V. saligna,* Roxb. Sch. l. c.—C.P. 1957.
HAB. Hotter parts of the island, not uncommon.

TRIB. *AVICENNIEÆ.*

11. **AVICENNIA,** Linn.

1. **A. officinalis,** Linn. (Sch. in DC. Prod. xi. p. 700, cum syn.; Wight, Ic. tt. 1481, 1482.)—C.P. 1961 (1962).
HAB. Not uncommon near the sea.

CXX. PLUMBAGINACEÆ.

1. **PLUMBAGO,** Tourn.

1. **P. Zeylanica,** Linn. (Boissier in DC. Prod. xii. p. 692, cum syn.)—C.P. 2265.

Digitized by Google

HAB. Very common in the hotter parts of the island. Nom. vulg. "Ella-nettol."

P. ROSEA, Linn., called by the Cinghalese "Rat-nettol," is not uncommon in gardens, but I cannot hear of its occurring truly wild. It is much valued as a medicinal plant.

CXXI. PLANTAGINACEÆ.

1. PLANTAGO, Linn.

1. **P. major,** Linn. (Var. β *Asiatica,* Dcne. in DC. Prod. xiii.-i. p. 694.)—*P. Asiatica,* Linn.—C.P. 2246.
HAB. Common in the most elevated parts of the Central Province.

P. LANCEOLATA, Linn., is become a common weed at Newera Ellia, having been introduced with grass-seeds from Europe.

CXXII. NYCTAGINACEÆ.

1. PISONIA, Plum.

1. **P. aculeata,** Linn.; Choisy in DC. Prod. xiii.-ii. p. 440, cum syn. —*P. villosa,* Poir. l. c. *P. Georgina,* Wall.—C.P. 2266.
HAB. Not uncommon up to an elevation of 3000 feet.

2. BOERHAAVIA, Linn.

3. **B. diffusa,** Linn.; Choisy in DC. Prod. xiii.-ii. p. 452, cum syn. —*B. procumbens,* Roxb.; Wight, Ic. t. 874.—C.P. 1099.
HAB. Very common on sandy or gravelly places. Nom. vulg. "Pitta-sooddoo-pala."

CXXIII. POLYGONACEÆ.

1. POLYGONUM, Linn.

1. **P. barbatum,** Linn. (Meisner in DC. Prod. xiv. p. 104, cum syn.; Wight, Ic. t. 1798.)—C.P. 3000.
HAB. Warmer parts of the island, not uncommon.

2. **P. Posumbu,** Ham. in Don Pr. Fl. Nep. p. 71; Wall. Cat. N.; an Meisner?—*P. strictum,* Allioni; Wight, Ic. t. 1800.—C.P. 2591.
HAB. Dimboola, in the Central Province, at an elevation of 4000 feet.

3. **P. serrulatum,** Lag. (Meisn. l. c. p. 110, cum syn.)—C.P. 2999.
HAB. Galle.

This is considered by Dr. Hooker to be merely a variety of *P. mite,* Schr.

4. **P. glabrum,** Willd. (Meisn. l. c. p. 114, cum syn.; Wight, Ic. t. 1799.)—C.P. 2907.
HAB. Very common up to an elevation of 3000 feet.

Dr. Hooker believes this to be a variety of *P. Persicaria,* Linn.

Digitized by Google

5. **P. tomentosum,** Willd. (Meisn. l. c. p. 124, cum syn.)—C.P. 2248.
HAB. Very common in the warmer parts of the island.

6. **P. perforatum,** Meisn. l. c. p. 128, cum syn.—*P. Nepalense*, Meisn. l. c.; Wight, Ic. t. 1804.—C.P. 2251.
HAB. Very abundant throughout the island.

7. **P. Chinense,** Linn. (Meisn. l. c. p. 130, cum syn.; Wight, Ic. t. 1 86.)—C.P. 2249.
HAB. A very common plant.

8. **P. strigosum,** R. Br. (Meisn. l. c. p. 134, cum syn.)—*P. muricatum*, Meisn. l. c. p. 133.—C.P. 2250.
HAB. Most elevated parts of the Central Province.

9. **P. pedunculare,** Wall. (Meisn. l. c. p. 133, cum syn.)—C.P. 3348.
HAB. South of the island.

CXXIV. SALSOLACEÆ.

1. CHENOPODIUM, Tourn.

1. **C. murale,** Linn. (Moquin in DC. Prod. xiii.–ii. p. 69, cum syn.)—C.P. 3658.
HAB. Trincomalie, *Rev. S. O. Glenie.*

2. ATRIPLEX, Gærtn.

1. **A. repens,** Roth, (Moq. l. c. p. 99.)—C.P. 2252.
HAB. North of the island, *Gardner.*

3. ARTHROCNEMUM, Moquin.

1. **A. Indicum,** Moq. in DC. Prod. xiii.–ii. p. 151, cum syn.—*Salicornia Indica*, Willd.; Wight, Ic. t. 737.—C.P. 2262.
HAB. North of the island.

4. SUÆDA, Försk.

1. **S. nudiflora,** Moq. in DC. Prod. xiii.–ii. p. 155, cum syn.—C.P. 2261.
HAB. Putlam, *Moon.* Trincomalie, *Rev. S. O. Glenie.* Batticoloa, etc.

In my specimens the styles vary in number from 2 to 5, but there are most commonly 4.

2. **S. Indica,** Moq. l. c. p. 156, cum syn.; Wight, Ic. t. 1796.—C.P. 2260.
HAB. Putlam, *Moon.* Jaffna, and Calpentyne, *Gardner.*

I have not seen fresh specimens in flower of this species, so have not had an opportunity of comparing it so critically as I could wish with the preceding, to which it is evidently very closely allied.

BASELLA RUBRA, Linn., is commonly cultivated in gardens, but is certainly not indigenous.

Digitized by Google

CXXV. AMARANTACEÆ.

1. CELOSIA, Linn.

1. **C. polygonoides,** Retz, (Moquin in DC. Prod. xiii.–ii. p. 238, cum syn.)—C.P. 2240.
HAB. North of the island, *Gardner*.

2. **C. pulchella,** Moq. l. c. cum syn.; Wight, Ic. t. 1768.—C.P. 2238.
HAB. Common in the hot, drier parts of the island.

3, **C. argentea,** Moq. l. c. p. 242, cum syn.; Wight, Ic. t. 1767.—An *C. cristatæ,* Moq. l. c., var. ?—C.P. 2245.
HAB. Warmer parts of the island. Nom. vulg. "Kirri-handa."

2. CHAMISSOA, Kunth.

1. **C. nodiflora,** Mart. (Moq. in DC. Prod. xiii.–ii. p. 249, cum syn.; Wight, Ic. t. 1770.)—*C. albida,* Moq. l. c. cum syn.; Wight, Ic. t. 1769. *C. dichotoma,* Moq. l. c. cum syn.; Wight, Ic. t. 1771. *C. esculenta,* Moq. l. c. cum syn. An *C. aspera,* Wight, Ic. t. 1772?—C.P. 2244, 2726, 3154.
HAB. Very common in the warmer parts of the island.

After examining a large series of specimens, I have found it quite impossible to arrive at any other conclusion but that the several plants I have enumerated are mere forms of one very variable species. The shape of the leaves and amount of pubescence are most inconstant characters; the seed varies in being more or less minutely punctate; and the whole plant is thin and flaccid, or of tolerably firm consistence.

3. AMARANTUS, Tourn.

(Nom. vulg. "Tampala.")

1. **A. oleraceus,** Roxb. Fl. Ind. iii. p. 605; Wight, Ic. t. 715 (vix *Euxolus oleraceus,* Moquin in DC. Prod. xiii.–ii. p. 273.)—*A. Gangeticus,* Linn.; Moq. l. c. p. 261, cum syn. *A. lanceolatus,* Roxb. l. c. p. 607.—An *A. melancholicus,* Linn.; Moq. l. c. p. 262, cum syn. ?—C.P. 3629.
HAB. Very common in native gardens, but hardly indigenous.

2. **A. polygamus,** Linn. (Roxb. Fl. Ind. iii. p. 603; Wight, Ic. t. 714.)—*Euxolus polygamus,* Moq. l. c. p. 272.—An *A. tristris,* Linn.; Moq. l. c. p. 260, cum syn.; Wight, Ic. tt. 514, 713 ?—C.P. 3642.
HAB. Common in cultivated ground.

The smaller size and procumbent habit of *A. polygamus* appear to me to be the principal points of distinction between it and *A. oleraceus,* to which it is extremely closely allied, if it be not indeed a form of it. In my specimens the *utriculi,* when perfectly ripe, have the circumscissal dehiscence of *Amarantus.*

3. **A. spinosus,** Linn. (Moq. l. c. p. 260, cum syn.; Wight, Ic. t. 513.—C.P. 2910.
HAB. Very abundant in waste places.

A. FRUMENTACEUS, Ham. (an *A. cruentus,* Linn. ?), *A. hypochondriacus,* Linn., and *A. caudatus,* Linn., occur as cultivated plants. All the species of *Amarantus* and *Euxolus* are used as vegetables by the Cinghalese.

Digitized by Google

4. EUXOLUS, Rafin.

(Nom. vulg. " Koora-tampala.")

1. **E. caudatus,** Moquin in DC. Prod. xiii.–ii. p. 274, cum syn.; Wight, Ic. t. 1773.—C.P. 2911.
HAB. Very abundant on waste ground.

2. **E. polygonoides.**—*Amblogyne polygonoides*, Rafin.; Moq. l. c. p. 270, cum syn. *Amarantus polygonoides*, L.; Willd.; Wight, Ic. t. 512. —C.P. 3643.
HAB. Very common in cultivated ground, etc.

This, as suspected by Moquin, does not differ generically from *Euxolus*. It is very closely allied indeed to *E. caudatus*, Moq., and might perhaps be safely considered a variety of it.

5. PSILOTRICHUM, Blume.

1. **P. scleranthum,** Thw.; suffruticosum; *ramulis* teretibus, tomentellis; *foliis* ovato-lanceolatis, acutis, basi in petiolum brevem angustatis, pilosulis; *spicis* terminalibus, parum ramosis, obtusis; *floribus* densis; *bracteolis* late ovatis, mucronatis, 2 interioribus glabris, exteriore minore, pubescente; *sepalis* subæqualibus, rigidis, lanceolatis, acutis, obscure 5-nerviis, externe pilosis, quam bracteolæ duplo longioribus.—C.P. 2239.
HAB. Anooradhapoora, *Gardner*.

Folia ¾–1¼ poll. longa, 4–7 lin. lata. *Flores* 2 lin. longi, albidi.
At first sight this might be taken for a small form of *Banalia thyrsiflora*, Moq., but its simple stigma brings it within the present genus.

6. PTILOTUS, R. Br.

1. **P. ovatus,** Moquin in DC. Prod. xiii.–ii. p. 281, cum syn.—C.P. 2235.
HAB. Hot, drier parts of the island.

7. ÆRVA, Försk.

1. **Æ. Javanica,** Juss. (Moquin in DC. Prod. xiii.–ii. p. 299, cum syn.; Wight, Ic. t. 876.)—C.P. 2255.
HAB. North of the island, *Gardner*.

2. **Æ. lanata,** Juss. (Moq. l. c. p. 303, cum syn.; Wight, Ic. t. 723.) —C.P. 2253.
HAB. Very abundant on waste ground. Nom. vulg. " Pol-hoonoo-pala."

3. **Æ. Monsonia,** Moq. l. c. p. 305, cum syn.; Wight, Ic. t. 725.—*Æ. setacea*, Moq. l. c.
HAB. North of the island, *Dyke*, (*Herb. Hook.*)

8. NOTHOSÆRVA, Wight, Ic. vi. p. 1.

Pseudanthus, Wight, Ic. t. 1776 (non Lieb.).

1. **N. brachiata,** Wight. l. c.—*Ærva brachiata*, Mart. Beitr. Amarant. p. 83; Moquin, l. c. (partim).—C.P. 2254.
HAB. Common in the hot, drier parts of the island.

Digitized by Google

9. ACHYRANTHES, Linn.

1. **A. bidentata,** Blume, (Moquin in DC. Prod. xiii.–ii. p. 312, cum syn.; Wight, Ic. t. 1779.)—C.P. 2236.
HAB. Very abundant on waste ground.

2. **A. aspera,** Linn. (Moq. l. c. p. 314, cum syn.; Wight, Ic. t. 1777.) —C.P. 2243.
HAB. Equally abundant with the preceding, and in similar places. Nom. vulg. "Gas-karral-habba."

This plant is employed medicinally in cases of dysentery.

3. **A. argentea,** Lam. (Moq. l. c. p. 315, cum syn.)—*A. porphyrostachya,* Wall.; Moq. l. c. p. 316. *A. rubro-fusca,* Wight, Ic. t. 1778. An *A. asperæ* var.?—C.P. 2909.
HAB. Caltura, *Moon.*

I am quite disposed to think, with Dr. Hooker, that this is probably merely a variety of *A. aspera.*

10. CENTROSTACHYS, Wall.

1. **C. diandra,** Wall. (Moq. in DC. Prod. xiiii.–ii. p. 322, cum syn.; Wight, Ic. t. 722.)—C.P. 2241.
HAB. Very common in the warmer parts of the island.

11. DIGERA, Forsk.

1. **D. arvensis,** Forsk. (Moq. in DC. Prod. xiii.–ii. p. 324, cum syn.) —*Desmochæte muricata,* Wight, Ic. t. 732.—C.P. 2912.
HAB. North of the island, *Moon.*

12. CYATHULA, Lour.

1. **C. prostata,** Blume, (Moquin in DC. Prod. xiii.–ii. p. 326, cum syn.; Wight, Ic. t. 733.)—C.P. 2242.
HAB. Very abundant. Nom. vulg. "Bin-karral-habba."

Employed as a medicine by the Cinghalese in cases of dysentery.

2. **C. capitata,** Moquin, l. c. p. 329; Wight, Ic. t. 1782.—C.P. 3112.
HAB. Ooma Oya, near Kandy.

In my specimens the *staminodia* are much wider and more copiously fimbriated than they are represented in Dr. Wight's figure.

13. PUPALIA, Juss.

1. **P. atropurpurea,** Moquin in DC. Prod. xiii.–ii. p. 331, cum syn.—*Desmochæte atropurpurea,* DC.; Wight, Ic. t. 731.—C.P. 2237.
HAB. Common in the hot, drier parts of the island.

2. **P. orbiculata,** Wight, Ic. t. 1783.—*Cyathula orbiculata,* Moquin, l. c. p. 330, cum syn.—C.P. 2234.
HAB. Hotter parts of the island; not uncommon.

Digitized by Google

14. ALTERNANTHERA, Mart.

1. **A. sessilis,** R. Br. (Moq. in DC. Prod. xiii.–ii. p. 357, cum syn.; Wight, Ic. t. 727.)—*A. nodiflora,* R. Br.; Moq. l. c. p. 356. *A. denticulata,* R. Br.; Moq. l. c. cum syn.—C.P. 2908.

HAB. Very abundant throughout the island. Nom. vulg. "Mokoonoo-wanna."

CXXVI. PHYTOLACCACEÆ.

1. GIESECKIA, Linn.

1. **G. pharnaceoides,** Linn. (Moq. in DC. Prod. xiii.–ii. p. 27, cum syn.; Wight, Ic. t. 1167.)—C.P. 1093.

HAB. Warmer parts of the island.

Phytolacca octandra, Moq., occurs occasionally as an escape from gardens; and *Rivina lævis,* Linn., is become naturalized in some places.

CXXVII. PROTEACEÆ.

1. HELICIA, Lour.

1. **H. Ceylanica,** Gardner in Calcutta Journ. of Nat. Hist. vol. vii. p. 453; Meisner in DC. Prod. xiv. p. 438.—C.P. 690.

HAB. Central Province, at an elevation of 2000 to 4000 feet; not very common.

Arbor mediocris. *Pedunculi pedicelli*que purpurei. *Flores* pallide flavi. *Fructus* ovoidei, utrinque parum acuminati, nucis avellanæ magnitudine, atro-purpurei.

I have examined a great many flowers of this species, and have found the ovary biovulate in all, in this respect agreeing with the other species of the genus. The loculus has at its upper part two shining slight prominences, which were probably mistaken by Dr. Gardner for another pair of ovules.

CXXVIII. THYMELACEÆ.

1. WIKSTRŒMIA, Endl.

1. **W. virgata,** Meisner in DC. Prod. xiv. p. 547, cum syn.—*W. canescens,* Meisner, l. c. cum syn. *W. inamœna,* Meisn. l. c. *W. salicifolia,* Dcne.; Meisn. l. c. p. 546. *Daphne inamœna,* Gardn. in Calc. Journ. of Nat. Hist. vol. vii. p. 454.—C.P. 2206.

HAB. Central Province, at an elevation of 6000 to 8000 feet.

2. LASIOSIPHON, Fresen.

1. **L. eriocephalus,** Dcne. (Meisn. in DC. Prod. xiv. p. 597, cum syn.)—*L. speciosus,* Dcne.; Meisn. l. c. p. 598. *Gnidia eriocephala,* Wight, Ic. t. 1859. *Gnidia* (*Dingia*) *eriocephala,* Gardner in Calcutta Journ of Nat. Hist. vol. vii. p. 456—C.P. 469.

Digitized by Google

Var. β. *Zeylanicus*, Meisn. l. c.; *Gnidia* (*Dingia*) *insularis*, Gardner, l. c.—C.P. 2913.

HAB. Drier parts of the island, up to an elevation of 4000 feet. Nom. vulg. "Naha-gass."

The two varieties of this species merge insensibly into one another. The bark is used for poisoning fish; a very excellent fibre is also obtained from it.

3. GYRINOPS, Gærtn.

1. **G. Walla,** Gærtn. (Meisn. in DC. Prod. xiv. p. 602, cum syn.; Wight, Ic. t. 1850.)—C.P. 1828.

HAB. Common in the warmer parts of the island. Nom. vulg. "Walla-gass."

The bark of this plant yields a very strong fibre.

4. DRYMISPERMUM, Reinw.

1. **D. cauliflorum,** Thw.; arborea, glabra; *foliis* nitidis, oblongo-lanceolatis, longiuscule acuminatis, basi acutis, brevi-petiolatis; *capitulis* caulinis, brevissime pedunculatis; *calyce* glabro, *lobis* ab marginem villosulis; *staminibus* biserialibus; *filamentis* subæquilongis.—C.P. 3459.

HAB. Hewessee, in the Pasdoon Corle, on the banks of a stream.

Arbor parva, elegans; *ramis* elongatis, subpendulis. *Folia* 6–9 poll. longa, 1½–3½ poll. lata. *Bracteolæ* ovatæ, acutæ, circiter 3 lin. longæ. *Flores* albidi, 8 lin. longi; *lobis calycinis* rotundatis, obtusis. *Fructus* ovoidei, parum acuminati, nucis avellanæ magnitudine, carnosi, sanguinei.

5. CANSJERA, Juss.

1. **C. Rheedeii,** Gmel. (Meisn. in DC. Prod. xiv. p. 519, cum syn.; Wight, Ic. t. 1861.)—C.P. 189.

HAB. Very common in the warmer parts of the island.

CXXIX. SANTALACEÆ.

1. PYRULARIA, Mich.

1. **P. Wallichiana,** A. DC. Prod. xiv. p. 629, cum syn.—*P. Ceylanica*, A. DC. l. c. *Sphærocarya Wallichiana*, Wight, Ic. t. 241.—C.P. 2555.

HAB. Central Province, at an elevation of 4000 to 6000 feet.

Partes juniores, cum inflorescentia, rubræ.

2. OSYRIS, Linn.

2. **O. arborea,** Wall. (A. DC. Prod. xiv. p. 633.)—*O. Wightiana*, Wall.; A. DC. l. c.; Wight, Ic. t. 1853.—C.P. 53 (206, 502.)

HAB. Oova, in the Central Province, at an elevation of 5000 to 6000 feet; abundant.

Digitized by Google

CXXX. ELÆAGNACEÆ.

1. ELÆAGNUS, Linn.

1. **E. latifolia,** Linn. (Schlecht. in DC. Prod. xiv. p. 610, cum syn.; Wight, Ic. t. 1856.)—*E. conferta,* Roxb. Fl. Ind.; Schl. l. c. p. 612. *E. arborea,* Roxb. l. c.; Schl. l. c. p. 611. *E. ferruginea,* Ach. Rich.; Schl. l. c. p. 610. *E. Wallichiana,* Schl. l. c. p. 612. *E. parvifolia,* Roxb.; Schl. l. c. *E. Thwaitesii,* Schl. l. c. p. 611. *E. Kologa,* Schl. l. c.—*Foliis* subtus argenteo-leprosis, squamis ferrugineis nullis vel paucissimis intermixtis.—C.P. 2263. *Foliis* firmioribus, sæpius majoribus, subtus squamis argenteis ferrugineisque intermixtis leprosis; *floribus* parum brevioribus.—C.P. 2264, 83. *Foliis* firmis, sæpius basi rotundatis, subtus ferrugineo-leprosis.—C.P. 2724.

HAB. Very common up to an elevation of 5000 feet.

I believe we have but one species of this genus indigenous to Ceylon, but it is an extremely variable plant. When occurring in the hotter parts of the island the leaves are more membranaceous, and have their leprous scales nearly all white; higher up, on the hills, the leaves are usually larger and firmer, and there is a greater intermixture of ferruginous scales, and sometimes the scales are all ferruginous.

CXXXI. DATISCACEÆ.

1. TETRAMELES, R. Br.

1. **T. nudiflora,** R. Br. in Pl. Jav. Rar. p. 19. t. 17.—*S. Horsfieldii,* Steud. Nomenc. p. 171.—C.P. 3113.

HAB. Ambagamowa District, at no great elevation; not common.

CXXXII. LAURACEÆ.

1. CINNAMOMUM, Burm.

1. **C. Zeylanicum,** Breyn. (N. ab E. System. Laurin. p. 45, cum syn.; Wight, Ic. tt. 128, 129, 134.)—*C. Capparu,* Coronde; Blume; N. ab E. l. c. p. 665, cum. syn.—C.P. 2283, 2284.

Var. *β. multiflorum.*—*C. multiflorum,* Wight, Ic. tt. 126, 131. *C. dubium,* N. ab E. l. c. p. 41; Wight, t. 135. *C. perpetuo-florens,* Wight, Ic. t. 141. *C. villosum,* Wight, Ic. t. 127.—C.P. 37, 2282.

Var. *γ. ovalifolium.*—*C. ovalifolium,* Wight, Ic. t. 125.—C.P. 263, (317, 628.)

HAB. Pretty generally distributed in forests up to an elevation of 3000 feet. Var. *β.* Common in the Central Province, up to 3000 feet. Var. *γ.* At an elevation of 4000 to 8000 feet.

Without the opportunity, which I have had, of seeing numerous examples of this very variable tree, I should scarcely have ventured to unite the above-enumerated varieties under one specific name, so unlike one another are the extreme forms of each; but in a large series of specimens it is frequently difficult, or even impossible, to determine to which variety to refer some of them, so intermediate are they in character.

The best cinnamon of commerce is the produce of what I consider a cultivated or selected form of var. *α*, and the trees of this form have usually large leaves of some-

Digitized by Google

what irregular shape; but the bark of all the forms of this species possesses the odour of cinnamon in a greater or less degree, and it is not always possible to judge of the quality of the bark from the foliage, for I have observed the cinnamon-peelers, when collecting bark from uncultivated trees, taste a small portion before commencing their operations, and pass over some trees as unfit for their purpose. The bark of varr. β and γ is of very inferior quality, and I have been informed is never collected, except for the purpose of adulteration.

A fragrant oil, sold under the name of "Clove Oil," is obtained by distillation from the leaves of the cultivated Cinnamon-tree, and the roots yield, under a similar process, a certain quantity of camphor. The ripe seeds contain some amount of stearine, but I cannot learn that it is now extracted for any purposes.

I strongly suspect that *C. obtusifolium,* N. ab E. l. c. p. 33, cum syn.; Wight, Ic. t. 139; *C. Bazania,* N. ab E. l. c. p. 36, cum syn.; *C. Malabathrum,* Batka; N. ab E. l. c. p. 38, cum syn.; *C. iners,* Wight, Ic. tt. 122, 122 bis, 230; and *C. nitidum,* N. ab E. l. c. p. 43, cum syn.; Wight, Ic. t. 124, will prove to be mere forms of the present species.

2. **C. citriodorum,** Thw.; *foliis* glabris, nitidis, coriaceis, ovatis vel oblongis, plus minus obtuse acuminatis, penniveniis vel rarius ad basin breviter 3-nerviis, venis inconspicuis; *paniculis* multifloris, elongatulis, subterminalibus, incano-pilosulis; *lobis perianthii* ad basin deciduis.—C.P. 393.

HAB. Safragam District and near Galagama, at an elevation of 1000 to 2000 feet. Nom. vulg. "Pangaree-kooroondoo-gass."

Arbor 20–30-pedalis, dense ramosa, compacta. *Ramuli juniores* pilosuli. *Folia* 1½–3 poll. longa, ¾–1½ poll. lata; *petiolo* semipollicari. *Pedicelli* floribus breviores. *Fructus* oblongus, basi perianthii truncata cyathiformi suffultus.

Well distinguished from every form of the preceding species by the venation of its leaves and by the truncated cup of the fruit. The bark of this species has much of the odour of citronella oil, intermixed with something of the fragrance of common cinnamon.

3. **C. litseæfolium,** Thw.; *foliis* glabris, coriaceis, ovato-lanceolatis, obtusiusculis, triplinerviis (nervis lateralibus infra medium folii evanescentibus), subtus pallidioribus; *paniculis* elongatis, apertis, multifloris, subterminalibus, incano-pilosulis; *lobis perianthii* ad basin deciduis.—C.P. 392.

HAB. Hapootelle, in the Central Province, at an elevation of 5000 feet. Nom. vulg. "Kooddoo-kooroondoo-gass."

Arbor 50–60-pedalis, versus apicem ramosum. *Ramuli juniores* pilosuli. *Folia* 2½–6 poll. longa, 1–2½ poll. lata; *petiolo* ½–¾ poll. longo. *Pedicelli* floribus longiores.

Nearly allied to the preceding, but the larger size and different shape and venation of the leaves sufficiently distinguish it. The bark of this species is quite inodorous.

2. APOLLONIAS, N. ab E.

1. **A. Zeylanica,** Thw.; arborea, glabra; *foliis* oppositis, oblongis vel oblongo-lanceolatis, parum obtuse acuminatis, valde reticulatis, basi angustatis, petiolatis; *paniculis* multifloris; *perianthio* deciduo.—C.P. 2485.

HAB. Central Province, at an elevation of 3000 to 4000 feet.

Arbor 50–60-pedalis. *Folia* 4–8 poll. longa, 1½–3 poll. lata, *petiolo* 4–8 lin. longo. *Flores* 1 lin. longi, pallide virides. *Fructus* cylindrico-oblongus, 8 lin. longus, 3 lin. latus, pedicello incrassato, truncato, 1–2 lin. longo.

This agrees so well in most respects with the other described species of *Apollonias*,

Digitized by Google

that the deciduous perianth of the present can scarcely be considered more than a specific character. It is evidently very closely allied to *Haasia Wightii*, Nees.

3. MACHILUS, Rumph.; Nees.

1. **M. macrantha,** N. ab E. Syst. Laur. p. 174, cum syn.; Wight, Ic. t. 1824.—*M. glaucescens*, Wight, Ic. t. 1825.—C.P. 2270, (2271.)

HAB. Central and South-western Provinces, at an elevation of 1500 to 4000 feet. Nom. vulg. "Oolooloo-gass."

The timber of this large tree is useful for building purposes.

4. ALSEODAPHNE, N. ab E.

1. **A. semicarpifolia,** N. ab E. Syst. Laur. p. 182, cum syn.; Wight, Ic. tt. 1826, 1827.—C.P. 2269.

HAB. Hot, drier parts of the island; not uncommon.

Fructus oblongus, 8 lin. longus, 5 lin. latus; *pedicello* incrassato, tuberculato, 6–10 lin. longo.

A very variable plant as regards the size and shape of the leaves.

5. CRYPTOCARYA, R. Br.

1. **C. Wightiana,** Thw.—*C. floribunda*, Wight, Ic. t. 1829, (non N. ab E. fid. Hook. f.)—C.P. 414, (2392.)

HAB. Common up to an elevation of 5000 feet. Nom. vulg. "Goloomora-gass."

Folia subtus ferrugineo-puberula. *Fructus* subsphæricus, nitidus, niger, semipollicaris.

A large tree, useful for building purposes.

2. **C. membranacea,** Thw.; *foliis* oblongis vel rarius ovato-oblongis, abrupte acuminatis, subglabris, membranaceis, utrinque minute prominentim reticulatis, basi acutis et parum obliquis; *paniculis* brevibus, paucifloris, ferrugineo-tomentellis; *fructibus* oblongo-ovoideis, ecostatis. —C.P. 2701.

HAB. Saffragam District, up to an elevation of 2000 feet.

Arbor mediocris. *Folia* 2½–7 poll. longa, 1–2¾ poll. lata, *petiolo* 3–4 lin. longo. *Fructus* atro-purpureus, circiter 7 lin. longus.

This would seem, judging from Nees von Esenbeck's description of his *C. amygdalina*, in Syst. Laur. p. 208, to be closely allied to that species, and to differ from it principally in having much smaller panicles of flowers.

6. TETRANTHERA, N. ab E.

(Cum *Lepidadenia*, N. ab E.)

1. **T. tomentosa,** Roxb. (N. ab E. Syst. Laur. p. 511, cum syn.; Wight, Ic. t. 1834.)—C.P. 2275.

HAB. Central Province, up to an elevation of 4000 feet; common. Nom. vulg. "Kos-badda-gass."

2. **T. ligustrina,** N. ab E. l. c. p. 513, cum syn.; Wight, Ic. t. 1835. —C.P. 2773.

HAB. Central Province, *Macrae*.

Digitized by Google

3. **T. Roxburghii,** N. ab E. l. c. p. 515, cum syn.—C.P. 2276.

HAB. Very common up to an elevation of 3000 feet. Nom. vulg. "Bo-mee-gass."

4. **T. nemoralis,** Thw.; *caule* erecto, simplici vel parce ramoso, terete, fusco-ferrugineo-velutino; *foliis* majusculis, lanceolatis, basi apiceque acutis, utrinque (junioribus) fusco-ferrugineo-villosis, denique superne subglabris, subtus reticulatis; *umbellulis* parvis, axillaribus caulinisque, fasciculatis, glabris vel sparsissime pilosis.—C.P. 2921.

HAB. Galle District, under the shade of large trees in forests.

10–12-pedalis. *Folia* 1–2-pedalia, 2½–4 poll. longa, *petiolo* ½–2½ poll. longo. *Pedunculi* 1–2 lin. longi. *Umbellulæ* parvæ, 5-floræ. *Perianthium* 6-partitum, lobis deciduis. *Fructus* subsphæricis, apiculatis, 4 lin. in diam., *pedicello* circiter 1 lin. longo.

5. **T. longifolia,** N. ab E. l. c. p. 528, et var. β.—C.P. 223, 79, (230, 417, 587.)

Var. γ; *foliis* glabris vel subglabris.—C.P. 2274.

HAB. Common in the Central Province, at an elevation of 4000 to 7000 feet.

Arbor parva, parce ramosa. *Fructus* sphæricus, 3–4 lin. in diam.

6. **T. glaberrima,** Thw.; *foliis* ovatis vel ovato-lanceolatis, parum abrupte acuminatis, minute reticulatis, basi acutis, subtus glaucis: *venis primariis* paucis, multum arcuatis; *umbellulis* parvis, axillaribus, fasciculatis, 4-floris; *perianthio* 6-partito, lobis deciduis; *fructibus* oblongis.—C.P. 2606.

HAB. Allagallà, in the Central Province, at an elevation of 4000 feet.

Arbor parva. *Folia* 2–7 poll. longa, 1–3 poll. lata, *petiolo* 4–8 lin. longo. *Flores* dioici.

In general appearance closely resembling the last species, from which it is distinguished by being glabrous in every part, by its wider leaves with more arcuate primary veins, and its differently shaped fruit.

7. **T. Gardneri,** Thw.; arborea; *foliis* majusculis, trapezoideo- vel obovato-oblongis, obtusis, coriaceis, superne glabris, subtus albido-tomentellis, basi acutis; *inflorescentia* axillari, racemoidea, quam folium multo breviore, albido-tomentella; *fructibus* subsphæricis.—C.P. 40.

HAB. Central Province, at an elevation of 4000 to 6000 feet.

Arbor 40–50-pedalis. *Folia* 4–12 poll. longa, 2–6 poll. lata; *venis primariis* parum arcuatis, superne depressis, subtus valde prominentibus; *petiolo* ½–1½ poll. longo. *Pedunculi communes* 1–3 poll. longi, *partiales* 2–5 lin. longi. *Umbellulæ* 5-floræ. *Flores* dioici; *perianthio* 6- rarius 4-partito, externe sericeo, interne glabro, *lobis* deciduis. *Stamina* sæpissime 9, 3 interiora biglandulosa. *Fructus* 4–5 lin. in diam.

This would seem to bear very considerable resemblance to *Lepidadenia Wightiana*, N. ab E., but the more numerously veined and oblique leaves of the latter, together with its hermaphrodite flowers and more numerous stamens, would appear sufficiently to distinguish it. In some of the male flowers, however, of the present plant there are, in addition to the nine fertile stamens, two or three central biglandular abortive ones, and thus is exhibited a character intermediate between that of *Tetranthera* and that of *Lepidadenia*, and justifying the suppression of the latter genus.

8. **T. iteodaphne,** N. ab E. l. c. p. 542.—C.P. 10, (351, 729, 2487.)

Var. β; *foliis* minoribus, anguste lanceolatis, sæpe valde acuminatis. —C.P. 360.

Digitized by Google

Var. γ; *foliis* ellipticis vel oblongis, parum acuminatis vel rarius apice rotundatis.—C.P. 2605.

HAB. Central Province, up to an elevation of 6000 feet.

Arbor mediocris, 20–30-pedalis. *Folia* subtus minute puberula, rarius glabra, 2–6 poll. longa, ½–2 poll. lata, *petiolo* 2–4 lin. longo. *Perianthium* sæpissime 4-partitum, lobis deciduis. *Stamina* sæpissime 8, 4 interiora biglandulosa. *Fructus* oblongis, ruber.

A most variable plant, the extreme forms of which are so very dissimilar in appearance, that they might well be taken for distinct species; but they so merge one into the other that is impossible to consider them other than varieties. Var. γ approaches very closely some forms of the next species.

9. **T. ovalifolia.**—*Lepidadenia ovalifolia*, Wight, Ic. t. 1839.—C.P. 167, (321, 2488, 2489, 2490.)

HAB. Central Province, at an elevation of 4000 to 7000 feet.

Arbor 30–40-pedalis, ramulis foliisque junioribus atro-violaceis, fugaci-puberulis. *Folia* ovata, oblonga vel ovato-lanceolata, obtusa, basi rotundata vel parum acuta, glabra, subtus pallidiora, 2–6 poll. longa, 1–3 poll. lata, *petiolo* 2–5 lin. longo. *Perianthium* 4–8-partitum, lobis deciduis. *Stamina* 8–16, biserialia, interioribus biglandulosis, sed sæpe numerosiora, valde irregularia confertaque. *Fructus* subsphæricus.

7. ACTINODAPHNE, N. ab E.

1. **A. glauca,** N. ab E. Syst. Laur. p. 599.—C.P. 3518, ? 2536.

HA lagalla, at an elevation of 7000 to 8000 feet.

Arbor 20–30-pedalis. *Flores fœm.* fasciculati, 1½ lin. longi, externe cum pedicellis 2 lin. longis ferrugineo-pilosi. *Stamina sterilia* spathulata, acuta, glabra. *Fructus* subsphæricus, basi perianthii aucta parum crenulata suffultus.

2. **A. stenophylla,** Thw.; arborea; *partibus junioribus inflorescentia*que ferrugineo-tomentosis; *foliis* ad apicem ramuli subverticillatis, 5–7-nis, lineari-lanceolatis, obtusis, minutissime reticulatis, penniveniis, denique glabris, subtus albo-pruinosis, basi parum angustatis; *fasciculis* 4–8-floris, secus ramulum infra folia sparsis; *floribus* dioicis; *pedicellis* subæquilongis; *perianthii lobis* 6, deciduis; *fructibus* sphæricis.—C.P. 303, 2491.

HAB. Abundant in the Oovah and Badulla Districts, up to an elevation of 3000 feet.

Arbor 20–30-pedalis. *Folia* 2–6 poll. longa, 3–10 lin. lata, *petiolo* 2–5 lin. longo. *Flores* 1½ lin. longi. *Fructus* 3 lin. in diam.

3. **A. Moonii,** Thw.; arborea; *partibus junioribus inflorescentia*que ferrugineo-tomentosis; *foliis* ad apicem ramuli subverticillatis, 4–5-nis, lanceolatis vel ovato-lanceolatis, acuminatis, obtusiusculis, penniveniis, superne minute reticulatis, subtus albo-pruinosis pilosulis denique glabris, basi rotundatis vel parum angustatis; *floribus* fasciculatis, dioicis, brevissime pedicellatis, axillaribus et infra folia secus ramulum sparsis; *ructibus* sphæricis, perianthio 6-lobo vix aucto suffultis.—C.P. 74.

HAB. Central Province, at an elevation of 5000 to 7000 feet.

Arbor 20-pedalis. *Ramuli* teretes, tomentosi. *Folia* 1½–4 poll. longa, ½–1½ poll. lata, *petiolo* 1½–3 lin. longo. *Flores* 1½ lin. longi. *Fructus* 3 lin. in diam.

Nearly allied to *A. molochina*, N. ab E., but its penninerved acuminate leaves sufficiently distinguish it.

4. **A. elegans,** Thw.; arborea; *partibus junioribus inflorescentia*que ferrugineo-tomentosis; *foliis* ad apicem ramuli 3–4-nis, lanceolatis, sæpe

Digitized by Google

longiuscule acuminatis, superne minute reticulatis, subtus albo-pruinosis, denique nudis, basi parum acutis; *floribus* dioicis, brevi-pedicellatis, fasciculatis, axillaribus et infra folia secus ramulum sparsis; *lobis perianthii* 6, deciduis; *fructibus* sphæricis.—C.P. 2277.

HAB. Central Province and in the Pasdoon Corle, up to an elevation of 3000 feet.

Arbor parva. *Folia* 1½–4 poll. longa, ½–1 poll. lata, *petiolo* tenui, 3–5 lin. longo. *Flores* 1½ lin. longi. *Fructus* 4 lin. in diam.

Differing from the last species, which it greatly resembles, in its narrower and more membranaceous leaves, with longer slenderer petioles, and its larger fruit, with truncated not lobed cup.

5. **A. speciosa,** N. ab E. l. c. p. 602; Wight, Ic. t. 1842.—C.P. 674.

Var. β; *foliis* minus coriaceis, parcius hirsutis, ovato- vel oblongo-lanceolatis, acuminatis, basi acutis.—C.P. 3371.

HAB. Central Province, up to an elevation of 8000 feet. Var. β. At about 4000 feet.

Arbor 30–40-pedalis. *Fructus* subsphæricus, perianthii basi truncata aucta ore contracta suffultus.

6. **A. molochina,** N. ab E. l. c. p. 603; Wight, Ic. t. 1843.—C.P. 2272, v. 2373.

HAB. Pedrotalagalla, at an elevation of 6000 to 8000 feet.

Arbor parva. *Fructus* sphæricus, parum oblatus, 3–3½ lin. in diam., perianthio 6-lobo vix aucto suffultus.

8. DAPHNIDIUM, N. ab E.

1. **D. lancifolium,** Thw.; arboreum; *partibus junioribus inflorescentia*que fulvo-sericeis; *foliis* ad apicem ramuli plus minus confertis, 5–7-nis, lanceolatis, gradatim acute acuminatis, superne lævibus vel minutissime rugulosis, subtus albo-pruinosis, basi acutis, triplinerviis, nervis lateralibus vix ad medium folii attingentibus; *gemmis* 3–4-floris, 4-squamosis, infra folia secus ramulum sessilibus.—C.P. 356.

HAB. Hapootelle District, in the Central Province.

Folia 2–3½ poll. longa, 6–10 lin. lata, *petiolo* 3–5 lin. longo. *Flores* subsessiles, 1½ lin. longi.

Apparently nearly allied to *D. melastomaceum*, N. ab E. l. c. p. 607. I have but a single specimen of the present plant, found mixed with some specimens of *Actinodaphne stenophylla*, a species it at first sight greatly resembles.

9. LITSÆA, Juss.

1. **L. Zeylanica,** N. ab E. Syst. Laur. p. 626, cum syn.; Wight, Ic. tt. 132, 1844. An *C. oblonga*, N. ab E. l. c. p. 672; Wight, Ic. t. 1845?—C.P. 2281, 3449 (413 partim).

Var. β; *foliis* firmioribus, glaberrimis, ellipticis vel oblongis, parum acuminatis vel valde obtusis; *staminibus* plus minus pilosis. An *L. foliosa*, N. ab E. l. c. p. 622?—C.P. 2278, 2280, 72.

HAB. Very abundant up to an elevation of 4000 feet. Var. β. Up to 6000 feet. Nom. vulg. "Dawal-kooroondoo-gass."

Plants of this species vary respectively very considerably as regards the size, shape, and texture of the leaves, but the character of the venation is very similar in all. The silky pubescence upon the young ramuli and leaves is in some persistent for a

Digitized by Google

considerable period, whilst in others it is exceedingly fugacious. The pruinose whiteness of the under surface of the leaves disappears sooner or later in different plants.

2. **L. orbicularis,** Thw.; *ramulis junioribus* fusco-tomentellis; *foliis* orbicularibus vel late obovatis, ad apicem ramuli confertis, 5–6-nis, triplinerviis, glabris, subtus albido-pruinosis; *petiolo costa*que subtus ad basin tomentellis; *gemmis florigeris* secus ramulum sessilibus, 4-floris; *squamis* rotundatis, externis glabris ciliatis, internis ferrugineo-pilosis.—C.P. 2699.

HAB. Ambagamowa District, at an elevation of 4000 feet.

Folia ¾–1½ poll. in diam., *petiolo* 2–3½ lin. longo.

3. **L. fuscata,** Thw.; arborea; *ramulis, petiolis, foliis subtus inflorescentia*que ferrugineo-tomentosis; *foliis* versus apicem ramuli alternis, ovatis vel ellipticis, utrinque parum subabrupte angustatis, triplinerviis; *nervis lateralibus* ad medium folii vel ultra attingentibus, externe venosis.—C.P. 413.

HAB. Central Province, at an elevation of 6000 to 8000 feet.

Arbor 20-pedalis. *Folia* 2–4 poll. longa, ¾–2 poll. lata, superne glabra, *petiolo* 5–9 lin. longo. *Gemmæ florigeræ* glomeratæ, axillares et infra folia et secus ramulum dispositæ. *Flores* 1½ lin. longi, cum pedicellis subæquilongis, pallide fulvo-pilosi, *lobis perianthii* deciduis. *Fructus* subsphæricus, semipollicaris, pedicello 7–8 lin. longo.

10. CASSYTHA, Linn.

1. **C. filiformis,** Linn. (N. ab E. Syst. Laur. p. 642, cum syn.; Wight, Ic. t. 1847.)—C.P. 1923.

HAB. Not uncommon in the hotter parts of the island, especially near the sea.

Lauraceis affines.

1. HERNANDIA, Plum., Blume, Endl.

1. **H. sonora,** Linn. (Willd. Sp. Pl. Linn. iv. p. 327, cum syn.; Wight, Ic. t. 1855.)—C.P. 2914.

HAB. Not very uncommon near the seashore in the neighbourhood of Galle and Matura.

2. GYROCARPUS, Jacq., Endl.

1. **G. Asiaticus,** Willd. (N. ab E. Syst. Laur. p. 701, cum syn.)—*G. Jacquinii*, Roxb. Pl. Corom. i. t. 1.—C.P. 2202.

HAB. Hot, drier parts of the island; not uncommon.

CXXXIII. URTICACEÆ.

TRIB. *URTICEÆ.*

1. FLEURYA, Gaud.

1. **F. interrupta,** Gaud. (Weddell, Arch. du Mus. ix. p. 115; cum

Digitized by Google

syn.; Wight, Ic. tt. 1975, 692.)—*Bœhmeria interrupta,* Willd. Sp. Pl. iv. p. 342, cum syn.—C.P. 2186.

HAB. Common in the warmer parts of the island. Nom. vulg. "Wal-kahambillya."

2. LAPORTEA, Gaudich.

1. **L. terminalis,** Wight, Ic. t. 1972; Weddell, Arch. du Mus. ix. p. 125, cum syn.—C.P. 3336.

HAB. Central Province, at an elevation of 4000 to 6000 feet.

2. **L. crenulata,** Gaud. (Wedd. l. c. p. 113, cum syn.; Miquel, Fl. Ind. Bat. vol. i. pars altera, p. 230.)—*Utrica crenulata,* Roxb.; Wight, Ic. t. 686.—C.P. 2200.

HAB. Very common up to an elevation of 5000 feet, in damp forests. Nom. vulg. "Maoossa-gass."

3. GERARDINIA, Gaudich.

1. **G. Leschenaultiana,** Dcne. (Wedd. Arch. du Mus. ix. p. 165, cum syn.; Wight, Ic. t. 1976.)—C.P. 3520.

HAB. Central Province, at an elevation of 5000 to 6000 feet.

2. **G. Zeylanica,** Dcne. (Wedd. l. c. p. 166, cum syn.; Miquel, Fl. Ind. Bat. vol. i. pars altera, p. 233.)—*Urtica heterophylla,* Roxb.; Wight, Ic. t. 687.—C.P. 2193.

HAB. Not uncommon in the warmer parts of the island. Nom. vulg. "Gass-kahambillya."

4. PILEA, Lindley.

1. **P. Wightii,** Wedd. l. c. p. 205, cum syn.—*P. radicans,* Wight, Ic. t. 1974 (non Wedd.)—C.P. 2185.

HAB. Central Province, at an elevation of 5000 to 7000 feet.

2. **P. trinervia,** Wight, Ic. t. 1973; Wedd. l. c. p. 224, cum syn.—*P. oreophila,* Miquel, l. c. p. 235, t. 17, cum syn. *Urtica trinervia,* Roxb. Fl. Ind. iii. p. 582.—C.P. 2093.

HAB. Common in wet woods, up to an elevation of 5000 feet.

3. **P. angulata,** Blume, Mus. Lugd. Bat. ii. p. 55.—*P. stipulosa,* Miquel, l. c. p. 236; Wedd. l. c. p. 230, cum syn. *P. hygrophila,* Bl. l. c.; Wedd. l. c. p. 264, cum syn.—C.P. 2184.

HAB. Central Province, common at an elevation of 3000 to 5000 feet.

A very variable plant; when growing in very damp shady places it puts on the form described under the name of *P. stipulosa.*

5. PELLIONIA, Gaudich.

1. **P. Heyneana,** Wedd.; Arch. du Mus. ix. p. 287, cum syn.—C.P. 2179.

HAB. Hantani, in the Central Province, at an elevation of 4000 feet.

6. ELATOSTEMA, Forst.

1. **E. lineolatum,** Wight, Ic. t. 1984; Wedd. l. c. p. 312, *a.*—C.P. 456.

Digitized by Google

Var. β. *majus*.—C.P. 2183.
Var. γ. *falcigerum*.—C.P. 3427.
Var. δ. *lineare*.—C.P. 3426.
HAB. Very abundant in damp forests, up to an elevation of 5000 feet.

2. **E. surculosum,** Wight, Ic. t. 2091, f. 4.; Wedd. l. c. p. 329, cum syn.—C.P. 2181, 2182.
HAB. Very common on the perpendicular surface of damp rocks, in forests of the central Province, up to an elevation of 6000 feet.

7. PROCRIS, Comm.

1. **P. lævigata,** Blume, Bijdr. p. 508; Miquel, Fl. Ind. Bat. vol. i. pars altera, p. 248, cum syn.—*P. Wightiana,* Wall.; Wedd. Arch. du Mus. ix. p. 336, cum syn.—C.P. 2180.
HAB. Common in forests, on damp rocks and trees, up to an elevation of 6000 feet.

Flores masc. fasciculati. *Fasciculi* pluriflori, glabri. *Pedicelli* 1–1½ lin. longi. *Perianthium* 1 lin. longum; *laciniis* oblongis, obtusis. *Pistilli rudimentum* minutum. *Flor. fœm. pedunculi* pallidi, valde succosi.

8. BŒHMERIA, Jacq.

1. **B. Malabarica,** Wedd. Arch. du Mus. ix. p. 355, cum syn.—*Urtica aquatica,* Moon's Cat. p. 62.—C.P. 2198.
HAB. Very common throughout the island. Nom. vulg. "Mahadeya-dool."

The bark of this plant is used by the Cinghalese for fishing-lines.

2. **B. platyphylla,** Don et Ham. (Wedd. l. c. p. 364, cum syn.) *a.*—C.P. 2952.
Var. κ. *macrostachya,* Wedd. l.c.—*Splitzgerbera macrostachya,* Wight, Ic. t. 1977.—C.P. 2196.
Var. μ. *Zeylanica,* Wedd. l. c.—C.P. 2197.
HAB. Common in the Central Province, up to an elevation of 6000 feet.

9. CHAMABAINIA, Wight.

1. **C. cuspidata,** Wight, Ic. t. 1981; Wedd. l. c. p. 387, cum syn.—C.P. 2882.
HAB. Newera Ellia, *Mr. W. Ferguson.*

10. POUZOLZIA, Gaudich.

1. **P. auriculata,** Wight, Ic. t. 1980, f. 2; Wedd. Arch. du Mus. ix. p. 393, cum syn.—*P. bicuspidata,* Wight, Ic. t. 2098, n. 32.—C.P. 2191.
HAB. Common in the hotter parts of the island.

P. elliptica, P. scabra, P. Rheedei, and *P. rostrata* of Wight's Icones are also quoted by M. Weddell as either forms or varieties of this species.

2. **P. Indica,** Gaud. (Wedd. l. c. p. 398, cum syn.)—*P. procumbens,* Wight, Ic. t. 2999, n. 35.—C.P. 2188.
Var. β. *alienata,* Wedd. l. c.—*P. Zeylanica,* Wight, Ic. t. 2101, n. 45.—C.P. 2189.

Digitized by Google

Hab. Very abundant up to an elevation of 4000 feet.

An extremely variable species; and Weddell includes amongst the synonyms of the present plant, under its several varieties or forms, *P. suffruticosa*, *P. tetraptera*, *P. Johnsoniana*, *P. pyramidata*, *P. pilosa*, and *P. minor* of Wight's Icones.

11. HYRTANANDRA, Miquel.

Memorialis, Ham. MSS., Weddell.

1. **H. Walkeriana,** Thw.—*Memorialis aquatica*, Wedd. Arch. du Mus. ix. p. 418 (nec *Urtica aquatica*, Moon, nec *U. verrucosa*, Moon). *Pouzolzia Walkeriana*, Wight, Ic. t. 2095, n. 16. *P. glabra*, Wight, l. c. n. 15.—c.p. 2192, 3372.

Hab. Common on moist banks, on the margins of woods, etc., up to an elevation of 2000 feet.

2. **H. hirta,** Miq. Fl. Ind. Bat. vol. i. pars altera, p. 261, cum syn.—*Memorialis hispida*, Ham. in Wall. Cat.; Wedd. l. c. p. 426, cum syn.

Var. *Gardneri*, Wedd. l. c.—*Pouzolzia Gardneri*, Wight, Ic. t. 2092, n. 5.—c.p. 2195.

Var. *Bennettiana*, Wedd. l. c.—*P. Bennettiana*, Wight, Ic. t. 1978.—c.p. 2190.

Hab. Central Province, at an elevation of 4000 to 7000 feet.

Var. *Gardneri*, when growing upon dry banks, has frequently very small leaves, not exceeding 3 lines in length, when it closely resembles in appearance the following species, *H. triandra;* and I suspect may in some instances have been distributed by me in lieu of that species.

P. ovalifolia, *P. tomentosa*, *P. heterocarpa*, and *P. quadrialata*, of Wight's Icones, are quoted by Weddell as belonging to this species.

3. **H. triandra,** Miq. l. c. p. 262, cum syn.—*Memorialis parvifolia*, Wedd. l. c. p. 432. *Pouzolzia parvifolia*, Wight, Ic. t. 2092, n. 1. *Urtica triandra*, Blume, Bijdr. p. 496.—c.p. 2187.

Hab. Newera Ellia.

12. OREOCNIDE, Miquel.

Villebrunia, Gaud., Blume.

1. **O. sylvatica,** Miquel, Pl. Jungh. i. p. 40, cum syn.; Fl. Ind. Bat. vol. i. pars altera, p. 270, cum syn.—*Villebrunia sylvatica*, Blume, Mus. Bot. Lugd. Bat. ii. p. 167, t. 15; Wedd. Arch. du Mus. ix. p. 453, t. 15 *c*.—c.p. 2199.

Hab. Central Province, at an elevation of 2000 to 4000 feet.

13. MOROCARPUS, Sieb. et Zucc.

Debregeasia, Gaud., Weddell.

1. **M. longifolius,** Blume, l. c. p. 156; Miquel, Fl. Ind. Bat. vol. i. pars altera, p. 272, cum syn.—*Debregeasia velutina*, Gaud.; Wedd. Arch. du Mus. ix. p. 460, cum syn. *Conocephalus niveus*, Wight, Ic. t. 1959. *Urtica longifolia*, Burm. Fl. Ind. p. 197. *Urtica verrucosa*, Moon, Cat. p. 62.—c.p. 2194.

Hab. Common in the Central Province, at an elevation of 1000 to 3000 feet. Nom. vulg. "Gass-dool."

The Cinghalese make fishing-lines of the bark of this plant.

Digitized by Google

2. **M. Wallichianus,** Thw.—*Debregeasia Wallichiana,* Wedd. l. c. p. 464, t. 14. *Urtica leucophylla,* Wall. Cat. n. 4607.—C.P. 2201.

HAB. Hantani, in the Central Province.

Arbor 15–20-pedalis.

TRIB. *ARTOCARPEÆ.*

14. ARTOCARPUS, Linn.

1. **A. nobilis,** Thw. (*A. pubescens,* Moon's Cat. p. 61: non Willd.); monoica; *foliis* magnis, subglabris, ovatis, brevi-acuminatis, basi obtusis, margine grosse crenatis; *venis primariis* rectis, parallelis, apice arcuatis; *lamina interposita* superne prominente et ad marginem folii parum saccata; *amentis* squamis orbicularibus stipitatis peltatis puberulis persistentibus arcte tectis; *masc.* lineari-cylindricis, *fœm.* oblongo-cylindricis.—C.P. 2818.

HAB. Not uncommon in the southern and central parts of the island, up to an elevation of 2000 feet. Nom. vulg. "Del-gass."

Arbor ingens, eximia, 40–50-pedalis. *Ramuli juniores* teretes, virides, albido-punctati, strigoso-scabri, denique brunnei, rugulosi. *Folia* 6–14 poll. longa, 4–10 poll. lata, superne nigro-viridia, costa venisque pallidis, subtus pallida, asperula; *petiolo* cylindrico, minute strigoso, ¾–1½ poll. longo, 3 lin. in diam. *Stipulæ* nigro-virides, externe strigosulæ, 3 poll. longæ. *Pedunculi* 2–3½ poll. longi. *Amenta masc.* 3–6 poll. longa, 5–8 lin. in diam.; *fœm.* breviora, 10–12 lin. in diam.; *floribus* minutis, numerosissimis, papillæformibus, parum glandulosis. *Fructus* oblongus, parum nodulosus, papillosus, 6–8 poll. longus, 3½–4 poll. latus. *Semina* subsphærica, alba, semipollicaria.

Folia plantarum juniorum vel valde luxuriantium majora et pinnatifida.

This fine tree, which has, until now, been confounded with *Artocarpus pubescens* of Willdenow, is evidently quite distinct from that, and apparently from any other hitherto described species. The wood is of very good quality, but not considered of equal value with that of *Artocarpus integrifolia.* The seeds toasted are a favourite article of food with the Cinghalese.

2. **A. Lakoocha,** Roxb. Fl. Ind. iii. p. 524; Wight, Ic. t. 681; Trécul, Ann. des Sci. Nat. ser. iii. vol. iii. p. 117; Walpers, Annales, i. 660.—C.P. 2831.

Var. *β*; *foliis* utrinque glabris vel subtus ad costam nervosque puberulis.—*A. Gomeziana,* Wall. MSS. Tréc. l. c. p. 118; Walp. l. c.—C.P. 2232 (2463).

HAB. Ratnapoora, *Gardner.* Var. *β.* Southern and central parts of the island, up to an elevation of 3000 feet. Nom. vulg. "Canna-gona-gass."

Fructus minute velutinus.

The seeds of this, when toasted, are eaten by the Cinghalese.

ARTOCARPUS INTEGRIFOLIA, Linn., is a common tree in native gardens or where native gardens have been, but cannot be considered truly indigenous. The timber is very valuable for cabinet and other work; and the fruit is much esteemed as an article of diet by the Cinghalese.

15. CUDRANUS, Rumphius.

Cudranus et *Maclura* (Sect. *Plecospermum*), Miquel. *Cudrania,* Trécul. *Maclura* (Sect. *Leptosura*), Blume. *Trophis,* Willd., partim.

1. **C. Rumphii,** Thw.—*C. Bimanus* vel *Javanus, Javanensis,* et *Am-*

Digitized by Google

boinensis, Rumph. Amboin. v. p. 22, tt. 15, 16. *C. Amboinensis*, Miq. Fl. Ind. Bat. vol. i. pars altera, p. 290. *Cudrania Javanensis*, Trécul, Ann. des Sci. Nat. ser. iii. vol. viii. p. 123 (non Wight, Ic. t. 1961). *Maclura* (*Plecospermum*) *Javanica*, Miq. l. c. p. 280. *Maclura* (*Leptosura*) *Javanica*, *Timorensis*, et *Amboinensis*, Blume, Mus. Bot. Lugd. Bat. ii. pp. 83, 84, t. 31. *Plecospermum cuneifolium*, Thwaites, in Hook. Journ. of Bot. vi. (1854) p. 303. *Trophis spinosa*, Willd. Sp. Pl. iv. p. 734 (partim); Blume, Bijdr. p. 489 (non Roxb.); Wall. Cat. 4641 *B*, *D*. *Batis spinosa*, Wall. Cat. n. 4643 *B*.—C.P. 2526.

HAB. Hot drier parts of the island; not very common.

16. PLECOSPERMUM, Trécul.

1. **P. spinosum,** Tréc. (Ann. des Sci. Nat. ser. iii. vol. viii. p. 124; Wight, Ic. t. 1963.)—*Batis spinosa*, Roxb. Fl. Ind. iii. p. 763, quoad descr. *B. aurantiaca*, Wall. MSS. in Hort. Calc. *Trophis spinosa*, Heyne, Wall. Cat. 4641 *A*; an Willd. Sp. Pl. iv. p. 734, partim? *T. aculeata*, Roth, Sp. Nov. p. 368.—C.P. 2212.

HAB. Common up to an elevation of 2000 feet. Nom. vulg. "Kattotimbool."

17. ALLÆANTHUS, Thw.

(Hook. Journ. of Bot. vol. vi. (1854) p. 302.)

Flores dioici; *masc.* in spicis axillaribus unilateralibus pedunculatis dense aggregati. *Stamina* 4, perigonii segmentis opposita, æstivatione inflexa. *Ovarii rudimentum* parvum, conicum, subulatum. *Flores fœm.* pauci, cum pluribus abortivis squamæformibus intermixti, in capitulis globosis axillaribus congesti. *Perigonium* tubulosum, irregulariter 4-fissum. *Ovarium liberum*, sessile, 1-loculare. *Ovulum* pendulum, campylotropum. *Stylus* subterminalis, brevis. *Stigma* elongatum, simplex vel rarius secundo breviori comitatum.—*Broussonetiæ* valde affine.

1. **A. Zeylanicus,** Thw. l. c. t. 9 *B*.—C.P. 2215.

HAB. Central Province, at an elevation of 1000 to 2000 feet. Nom. vulg. "Allandoo-gass."

Arbor 30–40-pedalis. *Ramuli* teretes, pilosi, lactescentes. *Folia* alterna, disticha, cordato-lanceolata, acuminata, serrata, pennivenia, pilosula, subtus pallidiora, venosa, 3–4 poll. longa, 1¼–1¾ poll. lata, aute anthesin simul decidua, *petiolo* piloso, 3 lin. longo. *Stipulæ* oblongæ, acuminatæ, membranaceæ, sublæves, striatæ, obliquæ, deciduæ, 2 lin. longæ, 1½ lin. latæ. *Flor. masc.*: *Spicæ* 1–2½ poll. longæ, 2 lin. latæ, pilosæ, *pedunculo* 2–3 lin. longo. *Flores fœm.*: *Capitula* 4 lin. in diam., brevipedunculata, pilosa.

A very tough fibre is obtained from the inner bark of this tree, which is used by the Cinghalese for a variety of purposes.

18. ANTIARIS, Lesch.

Lepurandra, Nimmo.

1. **A. innoxia,** Blume, Rumphia, i. p. 172, t. 54.—*A. saccidora*, Dalz. Hook. Journ. of Bot. iii. (1851) p. 232; Wight, Ic. t. 1958. *A. toxicaria*, Hook. Comp. to Bot. Mag. i. p. 311, t. 17. *Lepurandra saccidora*, Nimmo, Plants of Bombay, p. 193. An *A. toxicariæ*, Lesch., varietas?—C.P. 2231.

Digitized by Google

HAB. Hot drier parts of the island; not uncommon. Nom. vulg. "Ritti-gass."

The liber, or inner bark, is carefully removed entire from portions of the trunk of the proper length, and used by the natives as sacks for containing rice and other articles.

19. STREBLUS, Lour., Blume.

Epicarpurus, Blume, olim.

1. **S. asper,** Lour. Fl. Cochin. ii. p. 615; Blume, Mus. Bot. Lugd. Bat. ii. p. 79, cum. syn.; Miq. Fl. Ind. Bat. i. pars altera, p. 278.—*Epicarpurus orientalis*, Bl. Bijdr. p. 488; Wight, Ic. t. 1961. *Trophis aspera*, Retz; Roxb. Fl. Ind. iii. p. 761.—C.P. 2214.
HAB. Very abundant up to an elevation of 2000 feet. Nom. vulg. "Gatta-nittool."

20. TAXOTROPHIS, Blume.

(Mus. Bot. Lugd. Bat. ii. p. 77.)

1. **T. Roxburghii,** Blume, l. c. p. 78, cum. syn.; Miq. Fl. Ind. Bat. vol. i. pars altera, p. 279.—*Epicarpurus spinosus*, Wight, Ic. t. 1962 (partim). *E. Timorensis*, Dcne. *Trophis spinosa*, Flor. Ind. iii. p. 762. —C.P. 1074.
HAB. Hot drier parts of the island; not uncommon.

Cotyledones carnosæ, valde inæquales, quarum major minorem et radiculam brevem amplectens.

2. **T. Zeylanica,** Thw.—*Epicarpurus Zeylanica*, Thw. Hook. Journ. of Bot. iv. (1852) p. 1, et vol. iii. t. 11.—C.P. 2213.
HAB. Haragam, near Kandy.

Frutex ramosus, parce spinosus, 8-10-pedalis. *Ramuli* puberuli. *Folia* glabra, membranacea, lanceolata vel trapezoideo-lanceolata, obtuse acuminata, mucronulata, serrata, minute glanduloso-punctulata. *Inflorescentia* racemosa; *masc.* brevis, oblonga, confertiflora; *fœm.* pauciflora, *pedicellis fructiferis* elongatis et apice incrassatis; *sepalis* parvis, demum refluxis, non auctis. *Cotyledones* subæquales, foliaceæ, plicato-convolutæ. *Radicula* longiuscula.

21. DORSTENIA, Plum.

1. **D. Indica,** Wight, Ic. t. 1964.—C.P. 29 (519).
HAB. Common in damp woods of the Central Province, at an elevation of 3000 to 6000 feet.

22. UROSTIGMA, Gasparr.

1. **U. religiosum,** Gasp. (Miquel, Fl. Ind. Bat. vol. i. pars altera, p. 333, cum syn.; Wight, Ic. t. 1967.)—*Ficus religiosa*, Linn.—C.P. 3672.
HAB. Common about native temples, being held in great veneration by the Cinghalese Buddhists. Nom. vulg. "Bo-gass."

2. **U. Arnottianum,** Miq. in Hook. Lond. Journ. of Bot. vi. p. 564; Walp. Ann. i. p. 688.—An *Ficus lucida*, Ait. Hort. Kew. v. p. 485?—C.P. 2856.

Digitized by Google

HAB. Hot drier parts of the island. Nom. vulg. "Kappootoo-bogass."

3. **U. infectorium,** Miq. l. c. p. 566, cum syn.; Walp. l. c.—*Ficus infectoria,* Willd.; Wight, Ic. t. 665. *U. ægeirophyllum,* Miq. l. c. *U. Tjakela,* Miq. l. c. cum syn. *U. Ceylonense,* Miq. l. c. p. 690.—C.P. 2931, 3083.
HAB. Common up to an elevation of 2000 feet. Nom. vulg. "Kirripalla-gass."

Receptacula brevi-pedunculata vel sessilia.

The Cinghalese sometimes use the bark of this tree, instead of the areca-nut, to chew with their betel.

4. **U. Wightianum,** Miq. l. c.; Walp. l. c.—An *U. perseæfolium,* Miq. Walp. l. c. p. 689?—C.P. 2223.
Var. *β. majus; foliis* majoribus, costulis utrinque 12–14; *pedunculis* receptaculis æquilongis vel multo brevioribus.—C.P. 2464.
HAB. Common in the Central Province, up to an elevation of 5000 feet.

Receptacula matura semipollicaria, flavida, plus minus rufescentia, punctata.

An extremely variable species, and the foliage of the larger variety very closely resembles that of the preceding species; the much larger size of the fruit, however, at once distinguishes the present plant.

5. **U. Benghalense,** Gasparr. (Miq. l. c. p. 571; Walp. l. c. p. 691, cum syn.)—*Ficus Bengalensis,* Linn. Amœn. *F. Indica,* Linn. Roxb.—C.P. 2225.
HAB. Hotter parts of the island, probably not indigenous. Nom. vulg. "Maha-nooga-gass."

6. **U. tomentosum,** Miq. l. c. p. 573.—*Ficus tomentosa,* Roxb. Fl. Ind. iii. p. 550; Walp. l. c.; Wight, Ic. t. 647.—C.P. 2226.
HAB. Trincomalie, *Gardner.* Bintenne.

7. **U. Mysorense,** Miq. l. c. cum syn.; Walp. l. c. p. 691.—*Ficus Mysorensis,* Roth. *Ficus citrifolia,* Willd. Sp. Pl. iv. p. 1137.—C.P. 2222.
HAB. Not uncommon up to an elevation of 2000 feet. Nom. vulg. "Boonooga-gass."

8. **U. lacciferum,** Miq. l. c. p. 575; Walp. l. c. p. 692.—*Ficus laccifera,* Roxb. Fl. Ind. iii. p. 545; Wight, Ic. t. 656.—C.P. 2221.
HAB. Central Province, not uncommon. Nom. vulg. "Nooga-gass."

9. **U. Tjiela,** Miq. l. c. p. 580; Walp. l. c. p. 693.—*Ficus Tjiela,* Roxb. l. c. p. 549. *F. indica,* Linn. Syst. Veg. 922. *F. amplissima,* Linn.—C.P. 2537, 2220 (? 2218).
HAB. Central Province.

There is a noble specimen of this tree in the Royal Botanic Garden, whose branches spread over an area of ground 120 feet in diameter.

10. **U. retusum,** Miq. l. c. p. 581, cum syn.—*U. nitidum,* Miq. l. c. p. 582, cum syn. *U. ovoideum,* Miq. l. c. cum syn. *U. pisiferum,* Miq. l. c. p. 580, cum syn.; Walp. l. c. *Ficus retusa,* Linn. *F. nitida,* Thunb. *F. benjaminea,* Roxb. l. c. p. 550. *F. pallida,* Wall. Cat. n. 4567.—C.P. 14 (483).
HAB. Common in the Central Province, up to an elevation of 5000 feet.

Digitized by Google

11. **U. modestum,** Miq. l. c. p. 586; Walp. l. c. p. 696.—An *U. nervosi*, Miq. l. c., varietas?—C.P. 2219.
HAB. Central Province, at an elevation of 3000 to 5000 feet.

23. POGONOTROPHE, Miquel.

1. **P. dasyphylla,** Miq. in Hook. Lond. Journ of Bot. vii. p. 74.—*P. Zeylanica*, Miq. l. c. p. 75; Walp. Ann. i. p. 701.—C.P. 233, 379.
HAB. Central Province, at an elevation of about 4000 feet.

24. FICUS, Linn., Miquel.

1. **F. asperrima,** Roxb. Fl. Ind. iii. p. 554; Wight, Ic. t. 633.—*F. politoria*, Moon's Cat. p. 74 (non Lam.)—C.P. 2229.
HAB. Common up to an elevation of 2000 feet. Nom. vulg. "Seewana-maddeya-gass."

The leaves are in general use amongst native cabinet-makers as a substitute for fine sand-paper.

2. **F. cinerascens,** Thw.; *foliis* coriaceis, ellipticis vel oblongis, obtuse brevissime acuminatis, 9- to 12-costulatis, reticulatis, superne glabris, nitidis, subtus pallidioribus, punctato-asperulis, basi subtrinerviis, rotundatis vel parum angustatis; *pedunculis* axillaribus, sæpius solitariis, petiolo brevioribus; *receptaculis* majusculis, sphæricis, scabris, sæpe brevi-stipitatis, 3-bracteatis, pedunculo subæquilongis.—C.P. 2562.
HAB. Warmer parts of the island. Nom. vulg. "Wal-gona-gass."

Arbor ingens. *Ramuli* teretes (sicci sulcati), asperuli. *Folia* 3–6 poll. longa, 1½–3 poll. lata (sicca cinereo-viridia), *petiolo* asperulo, 6–12 lin. longo. *Receptacula* pollicaria. *Flores* monoici. *Perigonium* 5-phyllum. *Stigma* valde elongatum, bifidum.

3. **F. heterophylla,** Roxb. l. c. p. 532; Wight, Ic. t. 659; Miq. Hook. Lond. Journ. of Bot. vii. p. 231, cum syn.—*F. elongata*, Miq. l. c.; Walp. Ann. i. p. 712. *F. subpanduræformis*, Miq. l. c. p. 235; Walp. l. c. p. 714.—C.P. 2228.
HAB. Common in damp shady places. Nom. vulg. "Wal-ahattoo."

4. **F. parasitica,** Kœnig; Miq. l. c. p. 433, cum syn.; Walp. l. c. p. 718.—*F. Ampelos*, Kœn.; Roxb. Fl. Ind. iii. p. 553. *F. pervia*, Miq. l. c. *F. cuspidifera*, Miq. l. c. cum syn.; Walp. l. c. *F. uniglandulosa*, Wall. Cat. 4479. *F. sclerophylla*, Roxb. l. c. p. 546?—C.P. 2227.
HAB. Very abundant up to an elevation of 2000 feet. Nom. vulg. "Gass-nettool."

5. **F. disticha,** Blume, Bijdr. p. 458; Miq. l. c. p. 440; Walp. l. c. p. 721.—C.P. 2224, 3116.
HAB. Common in the Central Province, at an elevation of 3000 to 5000 feet.

6. **F. diversiformis,** Miq. l. c. p. 441; Walp. l. c.—*F. stipulata*, Moon's Cat. p. 74 (non Thunb.)—C.P. 2217.
HAB. Very common up to an elevation of 2000 feet.

25. COVELLIA, Gasparr.

1. **C. oppositifolia,** Gasparr.; Miq. in Hook. Lond. Journ. of Bot. vii. p. 461, cum syn.; Walp. Ann. i. p. 728.—*C. Dæmonum*, Miq. l. c.

Digitized by Google

cum syn.; Walp. l. c. *C. Assamica,* Miq. l. c. p. 464; Walp. l. c. *C. dasycarpa,* Miq. l. c. p. 465; Walp. l. c. p. 729. *Ficus oppositifolia,* Willd.; Wight, Ic. t. 638. *F. Dæmonum,* Vahl.—C.P. 2230.

HAB. Very abundant in the warmer parts of the island. Nom. vulg. "Kota-dimboola-gass."

2. **C. glomerata,** Miq. l. c.; Walp. l. c.—*Ficus glomerata,* Willd.; Roxb. Pl. Corom. ii. t. 123; Wight, Ic. t. 667.—C.P. 3305.

HAB. Common on the banks of rivers, up to an elevation of 2000 feet. Nom. vulg. "Atteekka-gass."

TRIB. *CELTIDEÆ.*

26. ULMUS, Linn.

1. **U. integrifolia,** Roxb. Pl. Corom. i. t. 78; Wight, Ic. t. 1968.—*Holoptelæa integrifolia,* Planch. Ann. des Sci. Nat. ser. iii. vol. x. p. 266.—C.P. 2381.

HAB. Hot drier parts of the island.

27. CELTIS, Tourn.

Sectio *Sponioceltis,* Planch.

1. **C. dysodoxylon,** Thw.; *partibus junioribus* ferrugineo-pilosis; *foliis* integris vel rarius obscure sinuato-dentatis, ovatis, plus minus abrupte acuminatis, firmis, trinerviis, glabris, basi parum obliquis angustatisque, costa venisque subtus puberulis; *cymis* brevibus, paucifloris, ferrugineo-pilosis; *drupis* parvis, subsphæricis, parum acuminatis.—C.P. 2563.

HAB. Central Province, up to an elevation of 5000 feet. Nom. vulg. "Gooranda-gass."

Arbor mediocris. *Folia* superne lævia, intense viridia, subtus pallidiora, inconspicue venosa (sicca fuscescentia), 2½–3½ poll. longa, 1½–2 poll. lata, *petiolo* 1½–3 lin. longo. *Flores* 5-meri, interne ad basin dense pilosi. *Ovarium* versus apicem ferrugineo-strigosum. *Stigmata* elongata, acutata.

The freshly cut timber of this tree possesses a powerful and very disgusting odour.

Sectio *Solenostigma,* Planch.

2. **C. Wightii,** Planch. l. c. p. 307; Wight, Ic. t. 1969.—C.P. 50 (331).

HAB. Not uncommon in the hot drier parts of the island.

28. SPONIA, Comm.

1. **S. orientalis,** Planch. Ann. des Sci. Nat. ser. iii. vol. x. p. 323.—*Celtis orientalis,* Linn. Fl. Zeyl. p. 176 (excl. syn. partim).

HAB. Common on the banks of rivers and on cleared ground. Nom. vulg. "Gadoomba-gass."

29. GIRONNIERA, Gaudich.

Nematostigma, Planchon. *Helminthospermum,* Thw.

1. **G. subæqualis,** Planch. Ann. des Sci. Nat. ser. iii. vol. x. p. 339; Blume, Mus. Bot. Lugd. Bat. ii. p. 73, t. 25.

Digitized by Google

Var. *β. Ceylanica*, Planch.—*Helminthospermum scabridum*, Thw. in Hook. Journ. Bot. vi. (1854) p. 302, t. 9 *C.*—C.P. 716.

HAB. Central Province, up to an elevation of 4000 feet.

2. **G. reticulata,** Thw.; *partibus junioribus* fugaci-adpresso-pilosis; *foliis* ovatis vel oblongis, plus minus abrupte longiuscule acuminatis, minutissime prominentim reticulatis, penniveniis, superne glabris, subtus parum asperulis; *stipulis* lanceolatis, pilosis, fere ad apices in unicam intra-axillarem connatis, deciduis; FLOR. MASC. in *paniculis* parvis axillaribus vel secus ramulum juniorem infra folia dispositis; FLOR. FŒM. solitariis, axillaribus, pedicellatis; *drupis* glabris, ovoideis, parum compressis, apice attenuatis.—C.P. 2565.

HAB. Badulla District, not uncommon up to an elevation of 3000 feet.

Arbor 30–40-pedalis. *Folia* 2–5 poll. longa, ¾–2 poll. lata (sicca rufescentia), *petiolo* 2–4 lin. longo. *Inflorescentia* subglabra. *Flores* parvi, 5-meri; *sepalis* rotundatis, obtusis. *Drupa* 6 lin. longa, 4 lin. lata, *stigmatibus* multo brevioribus coronata.

CXXXIV. EUPHORBIACEÆ.

TRIB. *UNIOVULATÆ.*

Sect. 1. EUPHORBIEÆ; *floribus involucratis, pedicellatis, nudis vel perianthii rudimento suffultis.*

1. EUPHORBIA, Linn.

1. **E. antiquorum,** Linn. (Willd. Sp. Pl. ii. p. 881; Roxb. Fl. Ind. ii. p. 468; Wight, Ic. t. 897; Rheede, Hort. Mal. ii. p. 81, t. 42.)—C.P. 2944.

HAB. Common in the hot drier parts of the island. Nom. vulg. "Dalook-gass."

2. **E. tortilis,** Rottler, (Wight, Ic. t. 898.)—An præcedentis varietas?—C.P. 2943.

HAB. Similar situations with the preceding, and perhaps only a variety of it. Nom. vulg. "Seenook-gass."

3. **E. Tirucalli,** Linn. (Willd. l. c. p. 890; Roxb. l. c. p. 470; Rheede, l. c. ii. t. 44.)—C.P. 2945.

HAB. Near the seashore. Nom. vulg. "Nawa-handee."

The milky juice of this plant is much employed as a medicine by the Malabars.

4. **E. nereifolia,** Linn. (Willd. l. c. p. 884, cum syn.; Roxb. l. c. p. 467; Rheede, l. c. p. 83, t. 43.)

HAB. Colombo, *Moon.* Nom. vulg. "Patook-gass."

I have never met with this plant truly wild in the island.

5. **E. hypericifolia,** Linn. (Willd. l. c. p. 895.)—*E. parviflora*, Linn.; Willd. l. c. p. 898; Roxb. l. c. p. 472. An *E. congenera*, Blume, Bijdr. p. 634? *Tithymalus erectus*, etc., Burm. Thes. Zeyl. p. 224, t. 105, f. 2.—C.P. 2125.

HAB. Very abundant. Nom. vulg. "Ella-dadakeeriya."

Tota planta, in meis speciminibus, plus minus hirsutula.

Digitized by Google

6. **E. rosea,** Retz, Obs. iv. p. 26; Willd. l. c. p. 895.—*E. satureoides,* Lam.—C.P. 2126, 2129.

HAB. Very common near the sea. Nom. vulg. "Moodoo-dadakeeriya."

7. **E. Burmanniana,** Gay.—*E. thymifolia,* Roxb. (Linn., Willd. partim). *Tithymalus humilis,* etc., Burm. l. c. t. 105, f. 3.—C.P. 2128.

HAB. Very abundant in cultivated ground. Nom. vulg. "Bin-dadakeeriya."

8. **E. Chamæsyce,** Linn. (Willd. l. c. p. 899.)—*E. uniflora,* Roxb. l. c. p. 473.—C.P. 3655.

HAB. Trincomalie, *Rev. S. O. Glenie.*

9. **E. bifida,** Hook. et Arn. Bot. Beech. p. 213.—*E. halophila,* Miquel.—C.P. 2131.

HAB. Not uncommon near the seashore.

Folia integerrima, glauca. *Involucri foliola* glandulas vix excedentia

10. **E. fimbriata,** Roth; annua, herbacea, prostrata, villosula; *foliis* oppositis, ovatis vel ovato-rotundatis, obtusis vel subacutis, serrulatis, oblique cordatis, brevi-petiolatis; *floribus* inter folia ad apices ramorum conferta nidulantibus; *pedunculis* brevibus, solitariis; *involucri foliolis* longiuscule laciniato-fimbriatis, laciniis pilosis; *glandulis* parvis, transverse oblongis.—C.P. 3568.

HAB. Gunner's Quoin, in the Batticaloa District.

Folia 2½–6 lin. longa, 2–3½ lin. lata. *Involucrum* brevi-campanulatum, foliolis radiantibus, 2 lin. in exp., albidis, rufescentibus. *Capsula* villosula.

11. **E. pilulifera,** Linn. (Willd. l. c. p. 897.)—*E. hirta,* Roxb. l. c. p. 472. (Linn., Willd., quoad plantas Zeylanicas.) *Tithymalus botryoides,* etc., Burm. l. c. pp. 223, 224, t. 104 et t. 105, f. 1.—C.P. 3337.

HAB. Very abundant in cultivated ground. Nom. vulg. "Boo-dadakeeriya."

12. **E. Rothiana,** Spr. (Wight, Ic. t. 1864.)—*E. læta,* Roth (non Ait.). *E. glauca,* Roxb. l. c. p. 473 (non Willd.). *E. oreophila,* Miq. *E. lanceolaria,* Herb. Heyne.—C.P. 2124.

HAB. Very common up to an elevation of 7000 feet.

Sect. 2. HIPPOMANEÆ; *floribus spicatis vel subspicatis, arcte bracteatis; perianthio uniseriali, segmentis in æstivatione imbricatis, vel plus minus imperfecto.*

2. SAPIUM, Jacq.

1. **S. Indicum,** Willd. (Roxb. Fl. Ind. iii. p. 692; Wight, Ic. t. 1950.)—C.P. 2946.

HAB. Warmer parts of the island. Nom. vulg. "Kirri-makooloogass."

3. EXCŒCARIA, Linn.

1. **E. Agallocha,** Linn. (Willd. Sp. Pl. iv. 864; Roxb. Fl. Ind. iii. p. 756; Wight, Ic. t. 1865 *B.*)—C.P. 2169.

HAB. Very common near the sea. Nom. vulg. "Tellakeeriya-gass."

2. **E. oppositifolia,** Jack in Calc. Journ. of Nat. Hist. iv. p. 386; Walp. Ann. i. p. 621.—*E. crenulata,* Wight, Ic. t. 1865 *A.*—C.P. 2523.

Digitized by Google

HAB. Common in the Central Province, at an elevation of 4000 to 6000 feet.

4. MICROSTACHYS, A. Juss.

1. **M. Chamælea,** A. Juss.—*Tragia Chamælea,* Linn.; Willd. Sp. Pl. iv. p. 326, cum syn.; Roxb. Fl. Ind. ii. p. 577.—C.P. 2132.
HAB. Very common amongst grass. Nom. vulg. "Rat-pittawaakka."

5. FALCONERIA, Royle.

1. **F. insignis,** Royle, Him. Illust. p. 354, t. 98, f. 2.—Var. *ovario triloculari.*—*F. Malabarica,* Wight, Ic. t. 1866.—C.P. 654.
HAB. Hot, drier parts of the island.

Sect. 3. ACALYPHEÆ; *floribus masc. perianthio uniseriali, segmentis in æstivatione valvatis; flor. fœm. perianthio uniseriali vel sub-biseriali, segmentis in æstivatione sæpissime imbricatis.*

* *Monoicæ.*

6. DALECHAMPIA, Plum.

1. **D. bidentata,** Blumé, Bijdr. p. 632; Miq. Fl. Ind. Bat. vol. i. pars altera, p. 417.—*D. Indica,* Wight, Ic. t. 1882. *D. velutina,* Wight, Ic. t. 1881.—C.P. 2170.
HAB. Gonagama, on the Lower Badulla road from Kandy; not common.

My specimens appear to be intermediate in character between Dr. Wight's *D. Indica* and *D. velutina,* and agree very well with Blume's description. The analysis of the male flower in both Dr. Wight's figures is incorrect, the filaments being represented as free to the base, instead of cohering into a central column.

7. TRAGIA, Plum.

(Nom. vulg. "Wel-kahambilleya.")

1. **T. cannabina,** Willd. Sp. Pl. iv. p. 326; Roxb. Fl. Ind. iii. p. 575.—C.P. 3569.
HAB. Hot, drier parts of the island.

2. **T. involucrata,** Willd. l. c. p. 324; Roxb. l. c. p. 576, cum syn.—C.P. 2099, 2100, 2951.
Var. β. *montana; foliis* ovato-lanceolatis, cordatis.—C.P. 3519.
HAB. Very common. Var. β. Newera Ellia.

An extremely variable species, and I suspect that the preceding is but a form of it.

8. ADENOCHLÆNA, Boivin:

In Baillon's Étude des Euph. p. 472. *Symphyllia,* Baill. l. c. p. 473. *Centrostylis,* Baill. l. c. p. 469.

1. **A. Zeylanica,** Thw.—*Centrostylis Zeylanica,* Baill. l. c. p. 470.—C.P. 396, 2111.
HAB. Rambodde and Happootelle, in the Central Province, at an elevation of 4000 to 5000 feet.

Frutex suberectus, parce ramosus, *partibus junioribus* pubescentia stellata albida

Digitized by Google

tectis. *Rami* elongati, debiles. *Folia* oblongo-lanceolata, acuminata, basi lata, truncata vel subcordata, trinervia, 3–7 poll. longa, 1–3 poll. lata, *petiolo* ½–3 poll. longo. *Stipulæ* subreniformes. FLORES MASC. parvi, ad apicem pedunculi dense agglomerati. *Stamina* 4–5, sepalis alterna, *filamentis* ad basin pistilli rudiment. columnaris insertis, æstivatione incurvis, denique suberectis, *antheris* extrorsis. FLOR. FŒM. ad basin pedunculi, 1–3, singuli sæpe pedicello proprio, brevi, floribus masc. paucis cincto. *Sepala* 5–6, lanceolata. *Ovarium* pilosum. *Stylus* 3-lobus, majusculus, deciduus, lobis copiose profundeque laciniatis. *Calycis fructiferi* aucti segmenta pectinato-laciniata; *laciniis* longis, setaceis, apice incrassatis purpureisque. *Capsula* 3-loba, parum depressa, coccis rotundatis. *Semina* subsphærica, 2 lin. in diam., brunneo nigroque marmorata.

As M. Baillon's description of this plant, the type of his genus *Centrostylis*, is incorrect, having been derived probably from imperfect specimens, I have thought it best to describe it here pretty fully.

9. ACALYPHA, Linn.

1. **A. Indica,** Willd. Sp. Pl. iv. p. 523, cum syn.; Roxb. Fl. Ind. iii. p. 675; Wight, Ic. t. 877.—C.P. 2098.

HAB. Very common in cultivated ground. Nom. vulg. "Kooppamaineya."

2. **A. betulina,** Willd. l. c. p. 522.—An *A. capitata* et *A. alnifolia*, Willd. l. c. p. 525?—C.P. 2094.

HAB. Hot, drier parts of the island.

3. **A. hispida,** Willd. l. c. p. 523.—C.P. 2092, 2097.

HAB. Common in the hotter parts of the island.

4. **A. ciliata,** Forsk. (Willd. l. c. p. 522; Roxb. l. c. p. 676.)—*A. lanceolata*, Willd. l. c. p. 524, cum syn.—C.P. 2095.

HAB. Not very uncommon in the warmer parts of the island.

5. **A. Wallichii,** Thw.; herbacea, ramosa, pilosula; *foliis* ovato-lanceolatis, dentatis, basi rotundatis, longe petiolatis; *inflorescentia masc.* axillari, spiciformi; *fœm.* terminali, paniculata, rarius axillari, spiciformi; FLOR. FŒM. *sepalis* 5.—*A. racemosa*, Wall. Cat. n. 7784. *Welia Capameni*, Rheede, Hort. Mal. x. p. 165, t. 83.—C.P. 2096 (2459).

HAB. Damp, shady places, up to an elevation of 3000 feet.

Folia 1–6 poll. longa, ¾–4 poll. lata, *petiolo* ¾–5 poll. longo. *Capsula* glandulosa. *Semina* subsphærica, minutissime reticulata.

** *Dioicæ.*

10. CLAOXYLON, A. Juss. (non Wight).

Erythrochilus, Reinw., Blume. *Micrococca*, Bentham.

1. **C. Mercurialis,** Thw.—*Micrococca Mercurialis*, Benth. in Hook. Fl. Nigrit. p. 503. *Tragia Mercurialis*, Willd. Sp. Pl. iv. p. 324; Roxb. Fl. Ind. iii. p. 576.—C.P. 3310.

HAB. Very common in cultivated ground.

2. **C. longifolium,** Baillon, Étude des Euphorb. p. 493.—*Erythrochilus longifolius*, Blume, Bijdr. p. 616.—C.P. 2102, 2499.

HAB. Central Province, up to an elevation of 5000 feet.

Frutex ramosus. *Folia* lanceolata, utrinque angustata, parce glanduloso-denticulata, 3–8 poll. longa, ¾–1¾ poll. lata, sæpe cyanescentia, *petiolo* apice superne glanduloso-

Digitized by Google

denticulata, ½–3 poll. longo. *Pedunculi* axillares, solitarii. *Glomeruli* secus rachin sæpissime valde elongatam sparsi, hispidi; MASC. stipitato-glandulosi. FLOR. MASC. *Stamina* 12–15, glandulis stipitatis 5–6-radiatis intermixta; *filamentis* brevibus, *antheris* albidis. *Capsula* pilosa.

The present genus is at once distinguished from *Rottlera* by its stamens being intermixed with stalked glands; and by the linear squamulæ adpressed to the ovary, within and alternating with the calyx-segments.

11. CLEIDION, Blume.

1. **C. Javanicum,** Blume, Bijdr. p. 613? ; Wall. Cat. n. 7718.—C.P. 656 (2104).

HAB. Central Province, up to an elevation of 2000 feet. Nom. vulg. "Okooroo-gass."

Antheræ transverse dehiscentes. *Semina* sphærica, 4–5 lin. in diam.; *testa* ossea.

12. SPATHIOSTEMON, Blume.

Adelia, Schreb., Miq., Roxb. (partim), Wight (non Linn.).
Hæmatospermum, Wall., Lindley.

1. **S. Javense,** Bl. Bijdr. p. 622.—Var. β; *capsula* lævi vel sublævi.—*S. salicinum*, Zoll. et Moritz; Baill. Ét. des Euph. p. 293. *Adelia neriifolia*, Roxb. Fl. Ind. iii. p. 840; Wight, Ic. t. 1868; Miquel, Fl. Ind. Bat. vol. i. pars altera, p. 389. *Hæmatospermum neriifolium* et *H. riparium*, Wall. Cat. n. 7953, etc.—C.P. 651.

HAB. Very common on the banks of rivers, where it is frequently submerged; up to an elevation of 2000 feet.

I can find no sufficient character to separate, except as a mere variety, the present common Indian and Ceylon plant from Blume's species, for a specimen of which latter I am indebted to M. Binnendijk, of the Java Botanic Garden.

13. TREWIA, Linn.

1. **T. nudiflora,** Linn. (Roxb. Fl. Ind. iii. p. 837, cum syn.; Wight, Ic. tt. 1870, 1871.)—*Rottlera Indica*, Willd.; Blume, Bijdr. p. 607; Wall. Cat. n. 7817 *B*.—C.P. 2930.

HAB. Not uncommon in the hotter parts of the island.

14. ROTTLERA, Roxb.

1. **R. tetracocca,** Roxb. Fl. Ind. iii. p. 826.—C.P. 2118.

HAB. Common up to an elevation of 2000 feet. Nom. vulg. "Bookanda-gass."

2. **R. rhombifolia,** Thw.—*R. dicocca*, Roxb. l. c. p. 829 (excl. syn.). *Croton rhombifolium*, Willd. Sp. Pl. iv. p. 555; Moon's Cat. p. 65.—C.P. 2115.

HAB. Not uncommon up to an elevation of 1500 feet.

Frutex vel *arbor* parva, subscandens, *partibus junioribus inflorescentia*que pubescentia stellata ochraceis. *Folia* 1½–4 poll. longa, 1½–3 poll. lata, creberrime translucenti-punctulata, subtus plus minus stellato-pilosa, disculis albidis nitentibus conspersa; *petiolo* cylindrico, piloso, 2 poll. longo. *Flores* numerosi. *Capsulæ* cocci 2, rotundati. *Semina* sphærica, rufo-nigra, 2 lin. in diam.

Digitized by Google

3. **R. tinctoria,** Roxb. Cor. Pl. ii. t. 168; Willd. l. c. p. 832; Roxb. Fl. Ind. iii. p. 827, cum. syn.—*Croton coccineum,* Vahl; Willd. l. c. p. 544. An *C. punctatum,* Retz; Willd. l. c. p. 546?—C.P. 2103.

HAB. Not uncommon in the hotter parts of the island. Nom. vulg. "Hamparandella-gass."

4. **R. oppositifolia,** Blume, Bijdr. p. 608.—*Plagianthera oppositifolia,* R. et Zoll.; Baill. Étude des Euph. p. 424.—C.P. 196 (2106).

HAB. Common up to an elevation of 2000 feet.

Frutex vel *arbor* parva, *partibus junioribus* pubescentia stellata ochraceo-fuscis. *Folia* ovato-lanceolata, utrinque angustata, acuminata, trinervia, 2–10 poll. longa, subtus disculis aureis nitentibus parce conspersa, venis venulisque prominentibus, *petiolo* ½–3 poll. longo. *Capsula* 3- vel 4-cocca, lævis, stellato-pubescens, coccis subsphæricis.

5. **R. fuscescens,** Thw.; glabra, *partibus junioribus, inflorescentia foliis*que subtus disculis adpressis plus minus rufescentibus creberrime conspersis; *foliis* oppositis, ovato-lanceolatis, acuminatis, penniveniis vel aliquando sub-trinerviis, subtus venulis parum prominentibus; *capsula* 3- vel 4-cocca, sparse glandulosa, coccis subsphæricis.—C.P. 2105.

HAB. Not uncommon up to an elevation of 2000 feet.

Arbor parva. *Folia* 2–6 poll. longa, 1–3 poll. lata, basi parum angustata; *petiolo* ½–1½ poll. longo, apice obscure biglanduloso.

6. **R. muricata,** Thw.—*Claoxylon muricatum,* Wight, Ic. t. 1886. An *Rottleræ aureo-punctatæ,* Dalz. in Hook. Lond. Journ. of Bot. iii. (1851) p. 122, varietas?—C.P. 2108.

HAB. Central Province, up to an elevation of 4000 feet.

Arbor parva, subglabra. *Folia* apposita, cuneato-obovata, rostrato-acuminata, grosse sinuato-dentata vel rarius subintegra, subtus disculis aureis vel rufescentibus creberrime conspersa, 2–7 poll. longa, 1–3 poll. lata, *petiolo* ½–1 poll. longo. *Capsula* 3-cocca, echinulis subglabris teretibus flexilibus prope basin articulatis caducisque munita.

7. **R. digyna,** Thw.—*Claoxylon digynum,* Wight, Ic. t. 1884.—C.P. 2109.

HAB. Caltura.

Arbor parva. *Folia* subtus disculis rufescentibus creberrime conspersa, prope basin biglandulosa.

8. **R. eriocarpa,** Thw.; pubescens; *foliis* oppositis, oblongo-lanceolatis, integris vel parum undulatis, trinerviis, subtus disculis aureis nitentibus parce conspersis, basi rotundatis vel subcordatis; *capsula* 3-cocca, echinulis plurimis patentim pilosis vestita, coccis subsphæricis. *Croton montanum,* Herb. Wight; Wall. Cat. n. 7820 *A.*—C.P. 2112.

HAB. Hot, drier parts of the island, not very common.

Frutex, pubescentia stellata ochraceo-fulva plus minus tomentosus. *Folia* 2–8 poll. longa, 1–4 poll. lata, *petiolo* ½–2 poll. longo. FLOR. MASC. *Alabastra* conica. *Stamina* numerosa, connectivo non producto. FLOR. FŒM. *Ovarium* staminibus sterilibus plurimis cinctum. *Styli lobi* 3, mediocres, interne valde plumosi.

Wallich's plant, from Penang, has the staminal filaments hairy, whilst in the Ceylon plant they are glabrous; but in other respects the two plants appear to agree perfectly.

15. PODADENIA, Thw. (gen. nov.).

FLOR. MASC. *Stamina* numerosa, glandulis parvis oblongis plurimis intermixta. FLOR. FŒM. *Fructus* indehiscens, carnosus, 3-spermus vel

Digitized by Google

sæpius abortu 1- vel 2-spermus. *Semina* arillo copioso integro carnoso vestita.—Cæteroquin ut in *Rottlera*.

1. **P. sapida**, Thw.—*Rottlera (Stylanthus) Thwaitesii*, Baillon, Étude des Euphorb. p. 426.—C.P. 3428.

HAB. Ambagamowa and at Marai-Calai, near Ratnapoora, at an elevation of 1000 to 2000 feet.

Arbor ingens, *partibus junioribus* fulvo-tomentosis. *Folia* integra, obovata, breve et abrupte acuminata, pennivenia, eglandulosa, superne glabra, costa venisque pilosis, subtus pilosa, basi plus minus angustata, 5–10 poll. longa, 2½–5 poll. lata, *petiolo* cylindrico, tomentoso, ½–2 poll. longo. *Inflorescentia* terminalis, paniculata, fulvo-tomentosa, glandulis stipitatis rubris creberrime conspersa. *Flores* rubri; MASC. secus racheos ramos dense fasciculati; alabastris acuminatis. FLOR. FŒM. *Styli lobi* 3, longiusculi, subulati, contorti, interne stigmatosi. *Fructus* subsphæricus, rufescens, glandulis majusculis stipitatis dense echinulatus, sesquipollicaris. *Semina* oblonga, 8–9 lin. longa, 4–5 lin. lata; *testa* ossea, brunnea. *Albumen* copiosum. *Arillus* albidus, sapidus.

The fleshy aril of the seed of this fine tree has an agreeable flavour, but I cannot learn that the Cinghalese eat it; the plant, however, being scarce and occurring in little-frequented localities, is probably known to but few of the natives.

16. MACARANGA, Dup. Th.

1. **M. tomentosa**, Wight, Ic. t. 1949–1.—C.P. 2171.

HAB. Very abundant up to an elevation of 3000 feet. Nom. vulg. "Kanda-gass."

Sect. 4. CROTONEÆ; *floribus masc. et fœm. perianthio biseriali vel subbiseriali, segmentis imbricatis.*

* *Floribus apetalis.*

† *Perianthii lobis 5, quorum 2 minores, interni.*

17. GELONIUM, Roxb.

1. **G. lanceolatum**, Willd. Sp. Pl. iv. p. 832; Roxb. Fl. Ind. iii. p. 831; Wight, Ic. t. 1867.—*G. bifarium*, Willd. l. c. p. 831. An Roxb. l. c. p. 830? An *G. fasciculatum*, Roxb. l. c. p. 832? An *Erythrocarpus glomerulatus*, Blume, Bijdr. p. 604?—C.P. 2101.

Var. β; *foliis* minoribus et plus minus angustioribus, sæpe aculeato-dentatis; *floribus* minoribus, denique ad apicem ramorum brevium racheos bifarii dispositis.—An *Erythrocarpus spicatus*, Blume, Bijdr. p. 604?—C.P. 695, 252.

HAB. Common in rather open forests, up to an elevation of 4000 feet.

A very variable plant; and all the specimens I have seen of the genus, from different and distant parts of India, might with safety be referred, I think, to one species.

†† *Perianthii verticillis dimeris.*

18. CHÆTOCARPUS, Thw.

Hook. Lond. Journ. of Bot. vi. (1854) p. 300. Baill. Étude des Euphorb. p. 323.

(Nom. vulg. "Haddoka-gass.")

Stamina sæpissime 8, biserialia, dimidio inferiore coalita et pistilli rudimentum cingentia.

Digitized by Google

1. **C. castanocarpus,** Thw.—*C. pungens,* Thw. l. c. p. 301 (excl. descrip. fruct.), t. 10 *A,* fig. 1–4. *Adelia castanocarpa,* Roxb. Fl. Ind. iii. p. 848; Wall. Cat. n. 7984. *Casearia ? coriacea,* Wall. Cat. n. 7196.—C.P. 2641.

Var. *β*; *pubescens; ramulis foliis*que subtus plus minus hispidis.—C.P. 3013.

HAB. Common in the Ratnapoora and Ambagamowa Districts.—Var. *β*. Pasdun Corle.

Flores 2–2½ lin. longi. *Capsula* subsphærica, semipollicaris, aculeis rigidis fragilibus reflexe setulosis ochraceo-rufescentibus dense tecta; *putamine* mediocri.

2. **C. coriaceus,** Thw.; *foliis* valde coriaceis, glabris, oblongis, brevi-acuminatis, superne lævibus, subtus parce venosis, basi acutis; *capsula* muricata, sparse strigosa.—*C. pungens,* Thw. l. c., quoad descrip. fruct. et fig. 6–9.—C.P. 1025.

HAB. With the preceding species, and equally common.

Arbor mediocris, *ramulis* subglabris. *Folia* 3–6 poll. longa, 1½–3 poll. lata, *petiolo* 3–5 lin. longo. *Fasciculi* multiflori, minute tomentosi. *Flores* 1–1½ lin. longi. *Filamenta* pilosa. *Capsula* ovoidea, obscure trigona, apiculata, 8 lin. longa; *putamine* osseo, 1 lin. in crass.

This very much resembles the preceding species; but the leaves of the present plant are much more coriaceous in texture, the flowers are smaller and on rather longer pedicels, and the capsule is very different. The timber of both is hard, and useful for building purposes.

††† *Perianthii verticillis trimeris.*

19. MISCHODON, Thw.

Hook. Journ. of Bot. vi. (1854) p. 299. Baillon, Étude des Euphorb. p. 335.

1. **M. Zeylanicus,** Thw. l. c. p. 300, t. 10 *B.*—C.P. 557.

HAB. Hantani, *Gardner;* Ooma Oya, on the Lower Badulla Road from Kandy; not common.

FLOR. FŒM. *Stylus* 3-partitus, *lobis* brevibus, reflexis, apice rotundato-dilatatis.

** *Perianthii verticillis* 4–5-*meris, interiore petalino, aliquando in flor. fœm. minutissimo, vel nullo.*

† *Monoicæ.*

20. CROTON, Linn.

1. **C. lacciferum,** Linn.; Wight, Ic. t. 1915 (excl. syn. aliq.)—*Aleurites lacciferus,* Willd. Sp. Pl. iv. p. 590. *Croton foliis ovatis,* etc., Fl. Zeyl. n. 344. *Ricinoides aromatica arbor,* etc., Burm. Thes. Zeyl. p. 201, t. 91.—C.P. 2117.

HAB. Very common up to an elevation of 3000 feet. Nom. vulg. "Gass-kappiteya."

The lac obtained from the old trees of this species is employed by the Cinghalese for medicinal and other purposes.

2. **C. aromaticum,** Linn. (Willd. l. c. p. 549, cum syn.)—An *C. Moluccanum,* Willd. l. c. p. 551 (excl. syn.)? *Croton foliis cordatis,* etc., Fl. Zeyl. n. 345.—C.P. 2116.

HAB. Abundant in the hotter parts of the island. Nom. vulg. "Wel-kappiteya."

Digitized by Google

A præcedente, cui valde affinis, differt *ramulis* elongatis debilibus; *foliis* minus pilosis et sæpius aperte cordatis; *capsula* majore elongatioreque, pilis stellatis parce conspersa.

The present plant bears considerable resemblance to Roxburgh's *Croton drupaceum;* but, besides other differences, the fruit of the latter is much larger and more hairy, and the lateral nerves of its leaves form a much more acute angle with the costa.

3. **C. Klotzschianum,** Wight, Ic. t. 1914.—C.P. 2113.

HAB. Not uncommon in the hot, drier parts of the island.

Frutex vel *arbor* parva, *partibus junioribus* dense stellato-pubescentibus. *Folia* oblongo-lanceolata, acuminata, denique subglabra, incurvo-denticulata, creberrime translucenti-punctulata, 1½–4 poll. longa, ¾–2 poll. lata, *petiolo* 3–15 lin. longo, glandulis disciformibus ad apicem subsessilibus. *Capsula* parum depressa, triloba, 4 lin. in diam., denique glabra.

I think this must be Dr. Wight's plant, as it agrees very well with his figure and short description. It is very closely allied to the two preceding species, from which it is best distinguished by its smaller, and at length glabrous, leaves and capsule; and by the latter being distinctly trilobed instead of subsphærical.

4. **C. Moonii,** Thw.; *foliis* scabris, oblongis vel obovato-oblongis, acuminatis, obscure denticulatis, utrinque sparse stellato-pubescentibus, basi plus minus angustatis, rotundatis vel subcordatis, irregulariter trinerviis; *capsula* oblato-sphæroidea, tuberculata, furfuracea.—*C. punctatum,* Moon, Cat. p. 65 (non Retz).—C.P. 577.

HAB. Caltura.

Arbor parva, *ramulis, petiolis inflorescentia*que pubescentia stellata scabris. *Folia* 3–6 poll. longa, 1½–2½ poll. lata, siccitate superne nigrescentia, *petiolo* ½–1¼ poll. longo, glandulis disciformibus ad apicem subsessilibus. *Capsula* 3½ lin. in diam.

5. **C. nigro-viride,** Thw.; subglabrum, *partibus junioribus* sparse stellato-pubescentibus; *foliis* firmis, opacis, ovato-lanceolatis, obtuse acuminatis, serratis, irregulariter 3-nerviis, basi parum angustatis; *capsula* (immatura) stellato-pubescente furfuraceaque.—C.P. 3637.

HAB. Rambodde, in the Central Province, at an elevation of 5000 feet.

Arbor parva. *Folia* nigro-viridia, 3–5 poll. longa; *petiolo* semipollicari, glandulis disciformibus ad apicem brevi-stipitatis.

Allied to the preceding, but distinguished at once by its glabrous and distinctly serrated leaves.

6. **C. hypoleucum,** Dalz. in Hook. Journ. of Bot. iii. (1851) p. 123 (non Schlecht.).—*C. reticulatum,* Heyne, fid. Wall. Cat. 7724 *A, B.*—C.P. 2110.

HAB. Central Province, at an elevation of 2000 to 3000 feet.

*Frutex, ramulis, petiolis inflorescentia*que albido- vel sæpius plus minus ferrugineo-leprosis. *Folia* membranacea, oblongo-lanceolata, acuminata, subintegra, superne glabra nitida (juniora fugaci-leprosa), subtus dense albido-leprosa, basi rotundata vel plus minus acuta, trinervia, 3–7 poll. longa, ¾–2½ poll. lata; *petiolo* ½–1¼ poll. longo, glandulis disciformibus ad apicem 2–4, stipitatis. *Capsula* ovoidea, trigona, apiculata, ferrugineo-leprosa, semipollicaris. *Semina* oblonga, nigro-fusca, albo-maculata.

7. **C. oblongifolium,** Roxb. Fl. Ind. p. 685.—*C. lævigatum,* Wall. Cat. 7735.—C.P. 2114.

HAB. Hot drier parts of the island, at no great elevation.

Arbor parva, *ramulis, petiolis inflorescentia*que albido-leprosis. *Folia* glabra, oblongo-lanceolata, utrinque angustata, parum obtusata, serrata, glandulis disciformibus ad apicem petioli parvis immersis.

Digitized by Google

Croton Tiglium, Linn., occurs not uncommonly in native gardens, but can scarcely be considered truly wild.

21. BLACHIA, Baillon:

Étude des Euphorb. p. 385, t. 19, fig. 18–20.

1. **B. umbellata,** Baill. l. c.—*Croton umbellatum,* Willd. Sp. Pl. iv. p. 545; Wight, Ic. t. 1874.—C.P. 3014.
HAB. Very common in the south of the island, and especially near the sea.

Though it is difficult to point out any very decided character to separate this species generically from *Croton*, still the eglandulose leaves, the umbellate inflorescence, the anthers erect in æstivation, and other minor characters about the inflorescence of the present plant, are probably sufficient to justify its being constituted a distinct genus.

22. TRIGONOSTEMON, Blume.

1. **T. diplopetalus,** Thw.; *foliis* subglabris, lanceolatis, mucronatis, distanter denticulatis, basi cuneatis; *pedicellis* floribus subæquilongis; *petalis* profunde bifidis, lobis rotundatis, laciniato-sinuatis, undulatis; *capsula* lævi, pilosa.—C.P. 578.
HAB. Palahattoo, in the Reigam Corle, at no great elevation.—Sept. 1856.

Frutex vel *arbor* parva, *partibus junioribus inflorescentia*que parce pilosis. *Folia* sublævia, pennivenia, siccitate nigro-fuscescentia, 6–9 poll. longa, 1½–2½ poll. lata; *petiolo* semipollicari, superne sulcato, ad apicem bidenticulato. *Stipulæ* minutæ, subulatæ, caducæ. *Racemi* terminales, multiflori, foliis breviores; *bracteis* minutis. *Petala* rubra. FLOR. MASC. *Pedicelli* 1½–2 lin. longi. *Calycis lobi* rotundati, petalis dimidio breviores. *Antherarum loculi* ad apicem connectivi crassi divergentes. FL. FŒM. *Pedicelli* superne incrassati, 4–5 lin. longi; *fructiferi* 6–7 lin. longi. *Calycis lobi* oblongi, plerumque dorso apiculati, petalis reflexis longiores. *Styli lobi* 3, breves, bis bifidi. *Capsula* 3-lobata, parum depressa, 2 poll. lata.

2. **T. nemoralis,** Thw.; *foliis* subglabris, lanceolatis, acuminatis, mucronulatis, undulatis, obscure denticulatis, penniveniis, basi cuneatis, brevi-petiolatis; *floribus* pedicellis subæquilongis; *petalis* oblongis, quam lobi calycini 2- vel 3-plo longioribus; *capsula* muricata, pilosa.—C.P. 3570.
HAB. Madamahanewera, in the Central Province, at an elevation of 2000 feet.

Frutex vel *arbor* parva, *partibus junioribus inflorescentia*que adpresse pilosis. *Folia* sublævia, ad apicem ramuli parum conferta, 3–7 poll. longa, 1–2 poll. lata; *petiolo* 2–4 lin. longo, apice bidenticulato. *Stipulæ* subulatæ, 1–1½ lin. longæ. *Racemi* multiflori, foliis breviores. *Petala* rubra. FLOR. MASC. *Antherarum* loculi subparalleli, parum distantes, ad apicem connectivi rotundati. FL. FŒM. quam masc. parum majores, 6–7 lin. in exp. *Ovarium* hispidum. *Styli lobi* 3, breves, spathulati, emarginati, reflexi. *Semina* sphærica, 3 lin. in diam., dorso parum carinata; *testa* lævi, fusco-marmorata.

23. JATROPHA, Kth.

1. **J. glauca,** Vahl, (Willd. Sp. Pl. iv. p. 558.)—C.P. 2168.
HAB. Damboul, *Gardner*.

Digitized by Google

24. DIMORPHOCALYX, Thw. (gen. nov.)

FLOR. MASC. *Calyx* cupuliformis, margine undulatis vel breve 5-dentatus. *Petala* 5, erecta, apice reflexa. *Glandulæ* 5, squamæformes, petalis alternæ. *Stamina* sæpissime 10, biserialia, 5 externa breviora petalis opposita; *filamentis* coalitis, apice liberis; *antheris* introrsis, loculis parallelis, longitudinaliter dehiscentibus. *Ovarii rudimentum* nullum. FLOR. FŒM. *Calyx* profunde 5-lobus, segmentis plus minus inæqualibus. *Petala* ut in flor. masc. *Stamina abortiva* sæpius nulla. *Discus* annularis. *Ovarium* 3-loculare. *Styli lobi* 3, erecti, apicibus bifidis, reflexis. *Capsula* 3-cocca, calyce plus minus aucto suffulta. *Arbor* parva, ramosissima, glabra; *foliis* lanceolatis vel ovatis, margine parce glanduloso-punctatis, petiolatis; *stipulis* parvis, triangularibus, acutis; *cymis* paucifloris, terminalibus axillaribusque, sessilibus vel brevi-pedunculatis, sæpius unisexuis; *bracteis* parvis, imbricatis.

1. **D. glabellus,** Thw.—*Croton glabellum*, Herb. Wight. An *C. Lawianus*, Nimmo in App. to Graham's Bot. of Bombay?—C.P. 1046 (2167).

HAB. Common in the hot drier parts of the island. Nom. vulg. "Welle-wenne-gass."

Folia 1–6 poll. longa, *petiola* 2–6 lin. longo. *Pedicelli* 1–4 lin. longi. *Petala* alba, 3–4 lin. longa. *Capsula* 4–5 lin. in diam., pilosula.

†† *Dioicæ.*

25. DESMOSTEMON, Thw. (gen. nov.)

Calyx profunde 5-lobus, segmentis rotundatis, inæqualibus. *Petala* 5, erecta, apice reflexa, calyce longiora. FLOR. MASC. *Glandulæ* 5, majusculæ, carnosæ, contiguæ. *Stamina* circiter 15, 3-serialia; *filamentis* cohærentibus, apice liberis, 5 externis brevioribus et petalis oppositis; *antheris* dorso medio affixis, extrorsis, loculis parallelis et longitudinaliter dehiscentibus. FLOR. FŒM. *Ovarium* conico-ovoideum. *Discus* annularis. *Styli lobi* 3, bifidi. *Capsula* 3-cocca, subsphærica, parum 6-costata, externe subcarnosa. *Semina* oblonga, albumine copioso. *Arbor, partibus junioribus* fugaci-leprosis; *foliis* majusculis, oblongo-lanceolatis, acuminatis, serratis, glabris, penniveniis, longe petiolatis, *petiolo* ad apicem tumido et minute 2-glanduloso; *stipulis* minutis, interne glandula rotundata tectis; *paniculis* terminalibus, elongatis, pendulis; *floribus* plus minus glomeratis, brevi-pedicellatis.

1. **D. Zeylanicus,** Thw.—C.P. 2160.

Var. β. *minor*; subarboreus, partibus omnibus minoribus.—C.P. 2158.

HAB. Central Province, up to an elevation of 4000 feet. Var. β. Warmer and southern parts of the island. Nom. vulg. "Wal-kakoona-gass."

Petala albida, 3–4 lin. longa. *Capsula* 1 poll. (var. β 6 lin.) longa, pubescentia stellata fulva vestita.

Between var. α and β I can discover no distinctive character but that of size; and in that respect there is considerable difference: the former being a large forest tree; whilst var. β might in some instances be termed a mere shrub, and has flowers and fruit a good deal smaller than those of var. α.

26. GIVOTIA, Griff.

1. **G. rottleriformis,** Griff.; Wight, Ic. t. 1889.—C.P. 1139.

Digitized by Google

HAB. Hot drier parts of the island, not common.

FLOR. MASC. *Stamina* sæpissime 15, basi coalita, 5 externa breviora.

27. SARCOCLINIUM, Wight.

1. **S. longifolium,** Wight. Ic. t. 1887, 1888.—C.P. 596.

HAB. Central Province, at an elevation of 4000 to 6000 feet. Nom. vulg. "Bairoo-gass."

The leaves of this plant, as they are of a firm consistence and do not rapidly decompose, are used by the Cinghalese for thatching.

2. **S. Hookeri,** Thw.; *foliis* magnis, glabris, nitidis, cuneato-lanceolatis, brevi-acuminatis, serrulatis, penniveniis, brevi-petiolatis; *stipulis* magnis, a basi lata lanceolatis, acutis. FLOR. FŒM. *Racemis* foliis subæquilongis, pendulis, glabris; *pedicellis* solitariis, infra medium articulatis; *sepalis* triangularibus, discum annularem magnum vix excedentibus.—C.P. 3429.

HAB. Near Eknalagodde, in the Ratnapoora District, at no great elevation. Nom. vulg. "Maha-bairoo-gass."

Arbor mediocris. *Folia* 2–3-pedalia, 5–7 poll. lata, *venis primariis* una ab altera 7–8 lin. distantibus, parallelis. *Stipulæ* 1½–2½ poll. longæ, striatæ, fuscæ. FLOR. FŒM. apetali (vel forsan petalis cito deciduis). *Pedicelli* 5–6 lin. longi. *Ovarium* obtuse trigonum, minute tomentosum. *Stylus* brevis, crassus, a medio 3-partitus; *segmentis* interne stigmatosis, apice emarginatis. *Capsulæ cocci* rotundati. *Semina* sphærica, semipellucaria. *Embryo* in medio albuminis copiosi; *cotyledonibus* planis, orbicularibus, *radicula* cylindrica iisdem subæquilonga. *Flor. mas.* nondum vidi.

28. AGROSTISTACHYS, Dalz.

Hook. Journ. of Bot. ii. (1850) p. 41. Baillon, Étude des Euph. p. 310.

1. **A. Indica,** Dalz. l. c.—C.P. 2156.

HAB. Central Province, at an elevation of 1000 to 2000 feet.

FLOR. MASC. *Petala* 6–8, albida. *Stamina* 8–13, basi in tubum brevem, pistilli rudimentum cingentem coalita.

TRIB. *BIOVULATÆ.*

Sect. 5. BRIEDELIEÆ.—*Perianthii biserialis verticillo interiore petalino.*

* *Calycis segmentis valvatis.*

29. BRIEDELIA, Willd.

1. **B. retusa,** Spr.—*B. spinosa,* Willd. Sp. Pl. iv. p. 979. *Cluytia retusa,* Linn.; Willd. l. c. p. 883. *C. spinosa,* Roxb. Cor. Pl. ii. p. 38, t. 172; Rheed. Hort. Mal. ii. t. 16.—C.P. 2161.

HAB. Common up to an elevation of 2000 feet. Nom. vulg. "Kattakaala-gass."

Folia acuta vel obtusa, in arboribus vetustioribus retusa.

2. **B. Moonii,** Thw.; arborea; *foliis* majusculis, oblongis, parum acutis, obtusis vel retusis, minute venosis, subtus villosulis; *florum glomerulis* axillaribus; *fructibus* ovoideis, parum acutis.—*Cluytia retusa,* Moon's Cat. p. 71 (non Linn.).—C.P. 3475.

Digitized by Google

HAB. Equally common with the preceding, up to an elevation of 2000 feet. Nom. vulg. "Patkaala-gass."

The Cinghalese consider this quite distinct from the preceding, which it however very closely resembles, differing in its somewhat larger leaves, axillary, not spiked inflorescence, and ovoid fruit. They are probably mere varieties of one species. The timber of both is useful for building purposes.

30. AMANOA, Aubl.

1. **A. patula,** Thw.—*A. Indica,* Wight, Ic. t. 1911. *Cluytia patula,* Roxb. Cor. Pl. vol. ii. p. 37, t. 170; Willd. Sp. Pl. iv. p. 884.—C.P. 2151, 2164.

HAB. Not uncommon in the hotter parts of the island.

Arbor parva vel mediocris, glabra. *Folia* oblonga vel rotundata, longiuscule acuminata, 2–7 poll. longa. *Flores* pilosuli. *Capsula* estipitata vel stipite brevissimo, parce longiuscule pilosa.

2. **A. pallida,** Thw.; arborea, *partibus junioribus* pallide fulvo-pubescentibus; *foliis* oblongis, lanceolatis, acuminatis, mucronatis, basi acutis; *floribus* glomeratis, axillaribus, externe incano-pubescentibus; *capsula* subsessili, longiuscule pallide fulvo-pilosa.—C.P. 2166.

HAB. Hanguranketty, near Kandy.

Arbor parva. *Folia* 1½–5 poll. longa, *petiolo* 2–3 lin. longo. *Capsula* parum depressa, circiter 3 lin. in diam.

3. **A. ferruginea,** Thw.; arborea, *partibus junioribus* ferrugineo-pilosis; *foliis* subcoriaceis, oblongis, obtuse rostrato-acuminatis, superne glabris, nitidis, subtus opacis, pilosulis, venis venulisque prominentibus; *floribus* axillaribus, glomeratis, ferrugineo-pilosis; *capsula* stipitata, ferrugineo-tomentosa.—C.P. 2407.

HAB. Central Province, up to an elevation of 3000 feet.

Arbor parva. *Folia* 2–5 poll. longa, *petiolo* 2–3 lin. longo. *Capsula* parum depressa, 4 lin. in diam., *stipite* 1 lin. longo.

4. **A. collina,** Baill. Étude des Euph. p. 582.—*Cluytia collina,* Roxb. l. c. t. 169; Willd. l. c. p. 883.—C.P. 2163.

HAB. Colonna Corle, rare. Nom. vulg. "Madara-gass."

NANOPETALUM, Hassk., a specimen of which I have received from M. Binnendijk, in habit resembles the present genus, as well as in its valvate calyx and stipitate capsule; but in its exalbuminate seeds it resembles *Actephila*.

** *Calycis segmentis imbricatis.*

31. ACTEPHILA, Blume.

Anomospermum, Dalz. An *Savia,* Willd.?

1. **A. Neilgherrensis,** Wight, Ic. t. 1910.—*A. Javanica,* Miq. Fl. Ind. Bat. vol. i. pars altera, p. 356. *Savia Actephila,* Hassk. Cat. Boy. p. 243. An *Anomospermum excelsum,* Dalz. in Hook. Journ. of Bot. iii. (1831) p. 228?—C.P. 2532, 3430, 3431.

HAB. Not very uncommon in the central and southern parts of the island, up to an elevation of 2000 feet.

Arbor parva. *Folia* ovato- vel elongato-lanceolata, plus minus acuminata, basi cuneata, 2–8 poll. longa, 1¼–3½ poll. lata, *petiolo* ½–1½ poll. longo. *Pedicelli* longitudine valde varii.

An extremely variable plant, and the different forms so merge into one another,

Digitized by Google

that I find it impossible to separate them into distinct varieties. In the ripe seeds I can discover no trace of albumen surrounding the embryo.

Sect. 6. PHYLLANTHEÆ.—*Flores apetali; perianthio biseriali vel sub-biseriali; fructûs loculis dispermis.*

32. PROSORUS, Dalz., Thw.

Cicca (Sect. *Prosorus*), Baill. *Zygospermum*, Thw. MSS. olim, Baill.

1. **P. Indica,** Dalz. in Hook. Journ. of Bot. iv. (1852) p. 346; Thw. ibid. vol. vi. (1854) p. 298, t. 10 *C*, figs. 3, 4, 5, 6; et vol. viii. (1856) p. 272.—C.P. 2155, 3099.

HAB. Not uncommon up to an elevation of 2000 feet. Nom. vulg. "Carron-gass."

FLOR. MASC. numerosissimi, 1½ lin. lati. *Discus* convexus, gibbus, rugulosus. *Pedicelli* 3–4 lin. longi. FLOR. FŒM. terni. *Pedicelli* 4–5 lin. longi.

2. **P. cyanosperma,** Thw.—*P. Gærtneri*, Thw. l. c. viii. p. 272, et vol. vi. t. 10 *C*, figs. 1, 2, 7, 8, 9, 10. *Croton? cyanospermum*, Gærtn. De Fruct. vol. ii. p. 120, t. 107. *Zygospermum zeylanicum*, Thw. MSS. olim; Baill. Étud. des Euph. p. 620.—C.P. 2601.

HAB. Ambagamowa and Ratnapoora Districts, up to an elevation of 1000 feet. Nom. vulg. "Sooddoo-leyang-gass."

FLOR. MASC. numerosi, 3 lin. lati. *Discus* concavus, lævis, cum calycis tubo adnatus. *Pedicelli* 4–5 lin. longi. FLOR. FŒM. solitarii. *Pedicelli* 5–8 lin. longi.

This and the preceding are entirely bare of leaves just before flowering. The timber of both is useful for buildings.

33. FLUEGGEA, Willd.

An *Chorisandra*, Wight, Ic. t. 1994?

1. **F. leucopyrus,** Willd. Sp. Pl. iv. p. 757; Wight, Ic. t. 1875.—C.P. 2154.

HAB. Very abundant in the hot, drier parts of the island. Nom. vulg. "Katoo-pilla."

In my specimens the ovary is 3-locular, and the style is tripartite, with the apices bifid; in other respects the plant is well represented in Dr. Wight's figure quoted above. Two plants from the continent of India, given me by Dr. Thomson, and named respectively *F. retusa* and *F. virosa*, appear to be very closely allied to the present species, but have comparatively much shorter petioles.

34. PELTANDRA, Wight.

(Icones, tt. 1891, 1892.)

1. **P. flexuosa,** Thw.; suffruticosa, glabra; *ramis* parum angulatis, striatis, flexuosis; *foliis* teneris, membranaceis, integris, ovatis, utrinque plus minus acutis, longiuscule petiolatis.—C.P. 3571.

HAB. Minnery, not common.

Humilis, parce ramosa. *Folia* ejusdem stirpis magnitudine valde varia, glauco-viridia, superne secus costam venas primariasque albo-areolata, *petiolo* 1–8 lin. longo. *Inflorescentia* monoica, *rachi* brevissima, bracteata; *bracteis* lanceolatis, acuminatis. *Sepala* rotundata, membranacea. FLOR. MASC. numerosi, singulatim evoluti. *Pedicelli* circiter 2 lin. longi. FLOR. FŒM. sæpius solitarii ad basin racheos. *Pedicelli* circiter 7 lin. longi. *Stylus* tripartitus, lobis profunde bifidis, capitellatis.

Digitized by Google

35. KIRGANELIA, Juss., Baill.

Sect. *ovario 4- vel pluri-loculari.—Anisonema*, A. Juss.

1. **K. multiflora,** Baill. Étud. des Euph. p. 614.—*Anisonema multiflora*, Wight, Ic. t. 1899. *Phyllanthus multiflorus*, Willd. Sp. Pl. iv. p. 581; Roxb. Fl. Ind. iii. p. 664. *P. pentandra*, Herb. Roxb. *P. puberula*, Miq. *Rhamnus Zeylanicus*, etc., Burm. Thes. Zeyl. p. 198, t. 88.—C.P. 2142.
Var. β; *glabra.—P. scandens*, Herb. Roxb.—C.P. 327, 2947.
HAB. Hot, drier parts of the island, especially towards the north, very abundant. Nom. vulg. "Wel-kyla."

36. PHYLLANTHUS, Linn.

1. **P. Niruri,** Linn. (Roxb. Fl. Ind. iii. p. 659, cum syn.)—C.P. 2138.
Var. β; *sepalis* 5.—Wight, Ic. t. 1894.—C.P. 2136.
HAB. A very abundant weed in gardens, etc. Var. β. Hot, drier parts of the island. Nom. vulg. "Pittawaaka."

2. **P. Urinaria,** Linn. (Roxb. l. c. p. 660, cum syn.)—*P. leprocarpus*, Wight, Ic. t. 1895–4.—C.P. 2137.
HAB. Equally common with the preceding. Nom. vulg. "Rat-pittawaaka."

3. **P. rotundifolius,** Klein. (Willd. Sp. Pl. iv. p. 584).—C.P. 2134.
HAB. Batticaloa, *Gardner*.

4. **P. Maderaspatensis,** Linn. (Willd. l. c. p. 575).—*P. obcordatus*, Roxb. l. c. p. 656.—C.P. 2133.
HAB. Hot, drier parts of the island, common.

5. **P. polyphyllus,** Willd. l. c. p. 586; Wight, Ic. t. 1895–2.—C.P. 2140, 2502 (2564).
HAB. A very common shrub or small tree in the northern parts of the island.

Sect. 2. *Emblica*, Gærtn.

6. **P. Emblica,** Linn. (Willd. l. c. p. 586, cum syn.; Roxb. l. c. p. 871).—*Emblica officinalis*, Gærtn.; Wight, Ic. t. 1896.—C.P. 2144.
HAB. Common on exposed grassy places, up to an elevation of 4000 feet. Nom. vulg. "Nelli-gass."

The fruit of this tree is much esteemed as a medicine by the Cinghalese. The timber is used for buildings.

Sect. 3. *Macræa*, Wight.

7. **P. simplex,** Willd. l. c. p. 573; Roxb. l. c. p. 654.—An *Macræa oblongifolia*, Wight, Ic. t. 1902–1?—C.P. 2139.
HAB. Common in the warmer parts of the island.

8. **P. Gardneri,** Wight, Ic. t. 1902–3.—*P. fruticosa*, Wall. MSS. An *Macræa ovalifolia*, Wight, Ic. t. 1902–4?—C.P. 5 (54, 296, 501).
Var. β. *pubescens;* tota planta plus minus pilosa.—C.P. 178.
HAB. Central Province, at an elevation of 3000 to 6000 feet.

Differs from the preceding, which it closely resembles in habit, in the firmer tex-

Digitized by Google

ture of its leaves; larger, more cordate and acuminated stipules, and larger calyx. In both, the capsule, when fresh, is slightly tuberculated. I suspect they will prove to be but forms of one species.

9. **P. myrtifolius,** Wight, Ic. t. 1902-2.—C.P. 650.
HAB. Banks of rivers, up to an elevation of 1500 feet.

Frutex majusculus, valde ramosus. *Folia* basi angustata, subauriculata. *Flores*, cum pedicellis, rufescentes.

A very distinct and elegant species, and becoming under cultivation a compact and extremely ornamental shrub.

10. **P. flaccidus,** Thw.; annua, erecta, plus minus ramosa, glabra; *ramis* striatis, parum angulatis; *foliis* teneris, ovatis, subacutis, mucronatis; *stipulis* anguste lanceolatis, petiolo longioribus; FLOR. MASC. 2-3-nis, brevi-pedicellatis; FLOR. FŒM. majoribus, in axillis versus apicem ramorum solitariis; *pedicellis* triangularibus, superne incrassatis, calyce subæquilongis.—C.P. 320 (510, 2147).
HAB. Central Province, at an elevation of 4000 to 7000 feet.

½-3-pedalis. *Folia* ½-1½ poll. longa, *petiolo* ½-1 lin. longo. *Sepala* ovato-oblonga, subacuta. FLOR. MASC. *glandulæ* rotundatæ, tuberculatæ. FLOR. FŒM. *discus* margine minutissime crenulatus. *Stylus* 3-partitus, apicibus bifidis, divergentibus.

37. EPISTYLIUM, Sw., Baill.

Sect. *flor. fœm.* 6-*sepalis*.—*Reidia*, Wight, Miq. *Eriococcus*, Hassk.

1. **E. floribundum.**—*Reidia floribunda*, Wight, Ic. t. 1903. *Phyllanthus longiflorus*, Heyne.—C.P. 71, 2531.
HAB. Central Province, at an elevation of 3000 to 5000 feet.

2. **E. montanum,** Thw.; glabrum; *foliis* ellipticis vel oblongis, abrupte brevissime acuminatis, basi inæqualibus, brevi-petiolatis; *pedicellis* folio longioribus; *sepalis* ovatis, fimbriatis; FLOR. FŒM. *disco* obscure 6-lobo, sublævi; *capsula* glabra.—C.P. 2148.
HAB. Horton Plains, at an elevation of 7000 feet.

3-4-pedale. *Folia* 2½-7 lin. longa, 1½-4 lin. lata. *Flor. masc.* 1-3-ni; *fœm.* solitarii.

Allied to the preceding, which it much resembles, but distinguished from it by the absence of pubescence; smaller leaves; fimbriated sepals; and the nearly entire and smooth disk of the female flowers.

3. **E. latifolium.**—*Reidia latifolia*, Wight, Ic. t. 1904-2.—C.P. 2145.
HAB. Central Province, at an elevation of 2000 to 4000 feet.

2-3-pedale. *Folia* firma, subtus areolata, costa venisque dilatatis. *Flor. fœm.* ad apices ramorum racemosi.

4. **E. polyphyllum.**—*Reidia polyphylla*, Wight, Ic. t. 1904-4.—C.P. 432.
HAB. Banks of stream at Leeta-gangoola, near Adam's Peak, at an elevation of 5000 feet.

3-4-pedale. *Sepala* omnia fimbriata. FLOR. FŒM. *discus* subinteger vel obscure 6-lobus.

38. AGYNEIA, Linn.

1. **A. bacciformis,** A. Juss. (Wight, Ic. t. 1893).—*A. phyllanthoides*,

Digitized by Google

Spr. *Phyllanthus bacciformis*, Linn.; Roxb. Fl. Ind. iii. p. 661.—C.P. 2130.

HAB. Not uncommon near the sea.

39. SAUROPUS, Blume.

Sauropus et *Ceratogynum*, Wight.

1. **S. Gardneriana,** Wight, Ic. t. 1951–2.—*S. Zeylanica* et *S. Indica*, Wight, Ic. t. 1952; Wall. Cat. n. 7933 *B* et *E*. An *S. albicans*, Blume, Bijdr. p. 596. *Phyllanthus strictus*, Roxb. Fl. Ind. iii. p. 670? —C.P. 2146.

HAB. Central Province, not uncommon up to an elevation of 4000 feet.

I suspect that this will prove to be but a form of Blume's plant, which appears to differ from the present principally in having firmer leaves, with more prominent veins, judging from a specimen I have from M. Binnendijk.

2. **S. retroversa,** Wight, Ic. t. 1951–1.—C.P. 3134.

HAB. Oodoopussalawa, in the Central Province, at an elevation of about 4000 feet.

Frutex erectus, glaber. *Folia* 1–2½ poll. longa, ½–1¼ poll. lata, a basi lata vel sæpe parum cordata gradatim acuminata, *petiolo* 1–1½ lin. longo. FLOR. MASC. pallide virides, flavescentes, margine inferiore *perianthii* duplicati, pileiformis, circiter 12-dentata. FLOR. FŒM. *perianthium* 3–4 lin. in exp., lobis horizontalibus, rotundatis, 3 exter. minoribus, subacutis. *Capsula* albida, pyriformis, pollicaris.

3. **S. assimilis,** Thw.; fruticosa, glabra; *ramis* parum angulatis; *foliis* membranaceis, teneris, ovato-lanceolatis, acuminatis, basi plus minus acutis; FLOR. MASC. lobis *perianthii* duplicati, æqualibus, anguste cylindricis, obtusis, curvatis, suberectis.—C.P. 2855.

HAB. Allagalla, in the Central Province, at an elevation of 3000 feet.

Folia 1½–3 poll. longa, *petiolo* 1½ lin. longo. FLOR. MASC. pallide virides, flavescentes, lobis *perianthii* 2 lin. longis. *Antheræ* subsessiles. *Flor. fœm.* nondum vidi.

This in general appearance closely resembles *S. Gardneriana*, but the flowers are more like those of *Ceratogynum rhamnoides*, Wight, Ic. t. 1900, from which latter species, however, it would seem to be sufficiently distinguished by its much larger and differently shaped leaves, and the obtuse, cylindrical, narrower lobes of the perianth.

4. **S. rigida,** Thw.; fruticosa, erecta, glabra, rigida, ramosa; *ramis* angulatis; *foliis* ovalibus vel rotundatis, brevi-petiolatis; *floribus* paucis, axillaribus, brevi-pedicellatis; MASC. lobis *perianthii* duplicati horizontalibus, triangularibus, margine exteriore retusa vel parce sinuata; FŒM. *sepalis* obovoideis, obtusis, apiculatis; *ovario* apice concavo, *stigmata* bifida erecta includente.—C.P. 2135.

HAB. Hot, drier parts of the island, not very common.

1–2-pedalis. *Folia* 3–7 lin. longa, 1½–5 lin. lata, superne nigro-viridia, medio albo-notata, subtus pallida. *Flores* pallide virides, flavescentes; MASC. 1 lin., FŒM. 3–4 lin. in exp. *Capsula* ovoidea, 3 lin. longa.

The ovary of this species bears a very considerable resemblance to that of *Agyneia bacciformis*. *Phyllanthus rhamnoides*, Roxb. (non Willd.), would appear, from the description, to be nearly allied to this; but the long-pedicelled male flowers of that plant are sufficient to prove it distinct.

Digitized by Google

40. MELANTHESA, Blume.

1. **M. rhamnoides,** Blume, Bijdr. p. 591 (non *Phyllanthus rhamnoides,* Willd. vel Roxb.); Wight, Ic. t. 1898–1.—*Phyllanthus Vitis-Idæa,* Kœn.; Roxb. Fl. Ind. iii. p. 665 (haud *Rhamnus Vitis-Idæa,* Burm. Fl. Ind. p. 61).—*P. cinerascens,* Wall. An *Melanthesa virgata* et *M. racemosa,* Bl. l. c.?—C.P. 2141.

HAB. Very abundant up to an elevation of 3000 feet. Nom. vulg. "Gass-kyla."

Specimens from the Java Botanic Garden, named respectively *Melanthesa virgata* and *M. racemosa,* Blume, appear to me to differ in no essential respect from the present plant, but they are not in a sufficiently perfect state to enable me to determine satisfactorily.

2. **M. turbinata,** Wight, Ic. t. 1897.—*M. obliqua,* Wight, Ic. t. 1898–2. *Phyllanthus turbinatus,* Kœn.; Roxb. l. c. p. 666. *P. patens,* Roxb. l. c. p. 667. *P. rhamnoides,* Herb. Heyne. *P. glaucifolia,* Wall. Cat. n. 7911 *B, E.*—C.P. 2143.

HAB. Common up to an elevation of 3000 feet. Nom. vulg. "Walmooroonga."

41. GLOCHIDION, Forst., Blume.

Bradleia, Gært. *Gynoon,* A. Juss.

(Nom. vulg. "Hoonoo-kirilla-gass.")

1. **G. Zeylanicum,** Thw.—*Bradleia Zeylanica,* Gærtn. De Fr. ii. p. 12, t. 109. *B. obliqua,* Wall.

Var. *α*; tota planta glabra; FLOR. FŒM. *stylo* brevi, crassiusculo.—C.P. 2149.

Var. *β*; *ramulis, petiolis, foliis* subtus *inflorescentia*que brevi-tomentosis; FLOR. FŒM. *stylo* subnullo.—"Falconer, n. 845, Amherst," in Hort. Calc.—C.P. 3432.—An species distincta?

HAB. Central and southern parts of the island, up to an elevation of 2000 feet.

Arbor parva. *Folia* firma, oblonga, acuminata, basi rotundata, obliqua, 3–6 poll. longa, circiter 2 poll. lata, *petiolo* 2 lin. longo. *Flores* umbellati. *Pedunculi* solitarii, axillares vel supra-axillares, petiolo 2–3-plo longiores. *Sepala* rotundata, subacuta. FLOR. MASC. *Antheræ* 5–6. FLOR. FŒM. *Ovarium* 5–6-loculare. *Capsula* oblato-sphærica, semipollicaris.

2. **G. coriaceum,** Thw.; glabrum; *foliis* majusculis, coriaceis, ovatis vel oblongis, obtuse acuminatis, mucronatis, basi obliquis, abrupte in petiolum angustatis; *sepalis* flaccidis, rotundatis vel late oblongis, subacutis; FLOR. MASC. antheris 3; FLOR. FŒM. sessilibus vel subsessilibus; *stylo* crasso, brevi, oblongo vel suborbiculari, apice 3-fisso; *capsula* subsphærica, depressa, parum triloba.—C.P. 3016, 342, 2529.

HAB. Central Province, at an elevation of 3000 to 4000 feet.

Arbor parva. *Folia* 2–6 poll. longa, 1–2¼ poll. lata, *petiolo* circiter 2 lin. longo. FLOR. MASC. *Pedicelli* 3–4 lin. longi. FLOR. FŒM. *Capsula* 4–5 lin. in diam.

An extremely variable species.

3. **G. Jussieuianum.**—*Gynoon Jussieuianum,* Wight, Ic. t. 1908. *G. triandrum,* W. et A.?, Wight, l. c.—C.P. 2561 (? 2560).

HAB. Central Province, up to an elevation of 4000 feet.

I have received this species from Java, so that it would appear to be widely dis-

Digitized by Google

tributed. C.P. 2560 I believe to be an abnormal state of the present plant, in which the sepals have cohered into a tridentate tubular perianth.

4. **G. Moonii,** Thw.—*Gynoon hirsutum,* Wight, Ic. t. 1909 (haud *Bradleia hirsuta,* Roxb.). *Phyllanthus pubescens,* Moon's Cat. p. 65. —C.P. 68, 258, 2150.

HAB. Very common up to an elevation of 4000 feet.

Frutex vel *arbor* parva, *ramulis* hirsutis vel tomentosis. *Folia* ovato- vel oblongo-lanceolata, acuminata, plus minus tomentosa vel aliquando subglabra, 2–8 poll. longa, 1–3 poll. lata, basi parum acuta, brevi-petiolata. *Inflorescentia* hirsuta. *Sepala* lineari-oblonga. FLOR. FŒM. sessiles vel subsessiles. *Stylus* plus minus elongatus clavatusque, pilosus, apice trifidus. *Capsula* pilosa.

5. **G. montanum,** Thw.; arborea; *ramulis* parum angulatis et cum *petiolis inflorescentia*que tomentosis; *foliis* ovato- vel oblongo-lanceolatis, obtusis, mucronatis, plus minus tomentosis vel subglabris, basi obliquis, rotundatis vel rarius parum acutis; *sepalis* oblongis; FLOR. FŒM. sessilibus; *stylo* cylindrico vel parum clavato, dense piloso vel subglabro, apice trifido; *capsula* glabra, depressa, triloba.—C.P. 3133.

HAB. Oova, in the Central Province, at an elevation of 4000 to 6000 feet.

15–20-pedalis. *Folia* 1½–3 poll. longa, ¾–1½ poll. lata, *petiolo* 1½ lin. longo.

Closely allied to the preceding species, from which it differs in its more arboreous habit, smaller, less acuminated leaves, and glabrous capsules.

6. **G. Gardneri,** Thw.; arborea; *ramulis* glabris; *foliis* glabris, acuminatis, mucronatis, basi obliquis, in petiolum brevem angustatis; *inflorescentia* plus minus pilosa; *sepalis* oblongis; FLOR. FŒM. sessilibus; *stylo* glabro, elongato, clavato, apice trifido; *capsula* glabra, depressa, triloba.—C.P. 3156.

Var. *α*; *foliis* ovatis, abrupte breveque acuminatis.

Var. *β*; *foliis* oblongis, longiuscule acuminatis; *inflorescentia* minus pilosa.

HAB. Var. *α*. Central Province, *Gardner*. Var. *β*. Reigam Corle.

Arbor parva. *Folia* (var. *α*) 1½–3 poll. longa, 1–1½ poll. lata; (var. *β*) 2½–4 poll. longa, ¾–1¼ poll. lata.

7. **G. nemorale,** Thw.; arborea; *ramulis, petiolis inflorescentia*que brevi-pilosis; *foliis* glabris, oblongo-lanceolatis, longiuscule acuminatis, subtus venis prominentibus, basi obliquis, acutis; *sepalis* oblongis; FLOR. FŒM. fasciculatis, *pedicellis* petiolo sæpius longioribus; *stylo* elongato, clavato, glabro; *capsula* glabra, depressa, triloba.—C.P. 3015.

HAB. Pasdun Corle, at no great elevation.

Folia 3½–7 poll. longa, 1½–2 poll. lata, *petiolo* circiter 2 lin. longo.

PHYLLANTHUS STELLATUS, Retz, Willd. Sp. Pl. iv. p. 577, is probably one of the foregoing species of *Glochidion*, but the description is too imperfect for the identification of the plant.

Sect. 7. PIERARDIEÆ.—*Flores apetali, perianthio biseriali vel sub-biseriali. Ovula bina in loculo sub processu magno cuculliformi placentæ affixa. Fructus monospermus vel loculis monospermis.*

42. CYCLOSTEMON, Blume.

Sphragidia, Thw.

1. **C. Zeylanicum,** Baill. Étud. des Euphorb. p. 562.—*Sphragidia*

Digitized by Google

Zeylanica, Thw. in Hook. Journ. Bot. vii. (1855) p. 270, t. 10.—C.P. 2424.

HAB. Central Province, at an elevation of about 3000 feet.

Arbor 30–40-pedalis, *partibus junioribus* parce fugaci-pilosis. *Folia* 5–10 poll. longa, 1½–3 poll. lata, *petiolo* 4–8 lin. longo. *Flores* pallide ochracei. *Sepala* 4–5, rotundata, obtusa, externe cum pedicellis sericeo-pilosa. *Fructus* subpollicaris.

43. HEMICYCLIA, W. et A., Thw.

Astylis, Wight.

1. **H. sepiaria,** W. et A. (Wight, Ic. t. 1872; Thw. in Hook. Journ. of Bot. vii. (1855) p. 271).—C.P. 2120.

HAB. Abundant in the hot, drier parts of the island. Nom. vulg. "Weera-gass."

2. **H. Gardneri,** Thw. l. c.—C.P. 2121.

HAB. With the preceding species, but not so abundant.

Arbor mediocris; *partibus junioribus, petiolis inflorescentia*que pubescentibus. *Folia* lanceolata, crenata, retusa, mucronata, basi obliqua, angustata et subtus secus costam pilis longis stipata, 1–3 poll. longa, ½–1 poll. lata, *petiolo* 1–2 lin. longo. *Flores* pauci, pallide ochracei, 6 lin. in exp. MASC. *Stamina* circiter 24, *discum* medio excavatum cingentibus. *Ovarii rudimentum* nullum. FŒM. *Stylus* brevis. *Stigma* convexum, carnosum. *Drupa* oblonga, 4 lin. longa.

3. **H. lanceolata,** Thw.; arborea; *ramulis, petiolis inflorescentia*que pilosis; *foliis* subglabris, lanceolatis, obtuse acuminatis, mucronatis, basi obliquis, subacutis et subtus secus costam longe pilosis; *floribus* paucis, parvis; *drupa* oblonga, ad apicem obliqua; *putamine* cristato, reticulato.—C.P. 2211.

HAB. Caltura.

Arbor mediocris. *Folia* 1–3 poll. longa, ½–1 poll. lata, *petiolo* 1–2 lin. longo. *Flores* circiter 2 lin. in exp. MASC. *Stamina* circiter 16. FŒM. *Stylus* brevis, in laminam bifidam dilatatus, reflexus. *Drupa* rubra, 6 lin. longa, 3 lin. lata.

44. PALENGA, Thw.

Hook. Journ of Bot. viii. (1856) p. 270. Baill. Étud. des Euph. p. 649.

1. **P. Zeylanica,** Thw. l. c. p. 271, t. 7 *C.*—C.P. 3349.

HAB. Ambagamowa District, at an elevation of about 2000 feet. Nom. vulg. "Palenga-gass."

Arbor 40–50-pedalis, glabra, *ramulis* teretibus. *Folia* lanceolata, acuminata, pennivenia, obliqua, nitida, nigro-viridia, subtus sparsim glanduloso-punctata, 3–5 poll. longa, 1–1½ poll. lata, *petiolo* ruguloso, 2 lin. longo. *Stipulæ* minutæ. *Flores* albidi, ½ lin. longi. *Pedicelli* 1 lin. longi. *Fructus* 8 lin. longus, 4 lin. latus, fusco-tomentosus.

45. PUTRANJIVA, Wall.

Nageia, Roxb. (non Gærtn.)

1. **P. Roxburghii,** Wall. Tent. Fl. Nep. p. 61; Cat. n. 6814; Royle, Pl. Him. t. 100; Wight, Ic. t. 1876.—*Nageia Putranjiva,* Roxb. Fl. Ind. iii. p. 767.—C.P. 2122.

HAB. Hot, drier parts of the island.

Digitized by Google

46. APOROSA, Blume, Miq., Baill.

Scepa, Lindley. *Lepidostachys*, Wall.

(Nom. vulg. "Kabella-gass.")

Baill. 1. **A. Lindleyana**, ~~Thw.~~—*Scepa Lindleyana*, Wight, Ic. t. 361.—C.P. 2153.

HAB. Very abundant up to an elevation of 2000 feet.

Arbor mediocris, valda ramosa. FLOR. FŒM. *Pedicelli* $\frac{1}{2}$–1 lin. longi, fructiferi 2 lin. longi. *Ovarium* ampullæforme, fulvo-pilosum, 2- vel 3-loculare. *Stigma* 2–3-partitum, lobis bifidis, tuberculatis vel parum plumosis. *Fructus* subsphæricus, brevi-apiculatus, sessilis, semipollicaris. *Semina* tunica externa carnosa, flava, sapida.

Closely allied to and resembling in general appearance *Lepidostachys Roxburghii*, Wall. Cat. No. 6816, but differing from it in its smaller leaves, which are frequently rounded at the base, its pedicellate female flowers, and its fruit being not at all stipitate.

2. **A. lanceolata**, Thw.—*Lepidostachys lanceolata*, Tul. in Ann. des Sci. Nat. (Bot.) sér. 3, v. 15, p. 254.—C.P. 2152.

HAB. Equally common with the last.

Arbor parva. FLOR. MASC. sæpius diandri, ovarii rudimento minuto, inconspicuo. FLOR. FŒM. *Spicæ* circiter 5-floræ. *Ovarium* ampullæforme, glabrum. *Stigma* breve, sessile, disciforme, 2-lobum, lobis bifidis sæpe denticulatis. *Fructus* subsphæricus, pisi magnitudine. *Semina* tunica externa carnosa, flava, sapida.

The fruit of this, like that of the preceding species, is eaten by children.

3. **A. latifolia**, Thw.; *foliis* subintegris, majusculis, glabris, subcoriaceis, obovatis, obtusis, basi plus minus rotundatis vel subcordatis; *spicis* ferrugineo-tomentosis; *bracteis* rotundatis, ciliatis; FLOR. MASC. sæpissime diandris; FLOR. FŒM. sessilibus; *ovario* piloso; *stigmate* tripartito, lobis reflexis, apice bifidis; *fructibus* subsphæricis, parum conicis, pericarpio valde carnoso firmo.—*Agyneia latifolia*, Moon, Cat. p. 65.—C.P. 3433.

HAB. South of the island, at no great elevation.

Arbor mediocris. *Folia* 4–8 poll. longa, 3–5 poll. lata, *venis primariis* utrinque circiter 7; *petiolo* $\frac{1}{2}$–1 poll. longo. *Fructus* pollicares.

4. **A. fusiformis**, Thw.; *foliis* subintegris, coriaceis, glabris, obovatis vel rotundatis, breve obtuseque acuminatis vel retusis, basi acutis vel rotundatis; *spicis* ferrugineo-tomentosis; *bracteis* rotundatis, ciliatis; FLOR. MASC. sæpius diandris; FLOR. FŒM. confertis; *ovario* glabro; *stigmate* 2–3-partito, lobis revolutis, apice bifidis; *fructibus* fusiformibus, pericarpio parce carnoso.—*Lepidostachys grandifolia*, Planch. MSS. in Herb. Hook.—C.P. 30.

HAB. Central Province, at an elevation of 4000 to 6000 feet.

Arbor mediocris. *Folia* $2\frac{1}{2}$–5 poll. longa, $1\frac{3}{4}$–3 poll. lata; *venis primariis* utrinque circiter 5; *petiolo* $\frac{1}{2}$–$\frac{3}{4}$ poll. longo. *Fructus* 6–8 lin. longi, 3–4 lin. lati.

The very different form of the much less fleshy fruit of the present species abundantly distinguishes it from *A. latifolia*, to which it bears a very great general resemblance.

5. **A. acuminata**, Thw.; *foliis* glabris, integris, membranaceis, ovato- vel oblongo-lanceolatis, acuminatis, basi acutis; *spicis* ochraceo-pilosis, brevibus, sæpius solitariis; FŒM. sæpissime unifloris; *ovario* ovoideo, piloso, 3-loculari; *stigmate* majusculo, 3-partito, lobis apice bifidis; *fructibus* subsphæricis, sessilibus, pericarpio valde carnoso, firmo.—C.P. 2530.

Digitized by Google

HAB. Ambagamowa District and near Balangodde, at an elevation of 2000 to 3000 feet.

Arbor parva, parce ramosa, *partibus junioribus* pilosis. *Folia* 1½–4 poll. longa, ½–2 poll. lata, *petiolo* 2–4 lin. longo. *Fructus* circiter ¾ poll. in diam.; viridi-rufescentes, sæpius 3-spermi. *Semina* tunica externa carnosa, flavo-rubra.

Sect. 4. ANTIDESMEÆ; *perianthio uniseriali; disco glanduloso maximo genitalia cingente.—Sectioni præcedenti valde affinis.*

47. ANTIDESMA, Linn. Burm.

1. **A. paniculatum,** Roxb., Willd. Sp. Pl. iv. p. 764; Roxb. Fl. Ind. iii. p. 770; Tulasne in Ann. des Sci. Nat. (Bot.) sér. 3, vol. xv. p. 228.—*A. pubescens,* Roxb. Pl. Cor. ii. t. 167; Willd. l. c. p. 763; Roxb. Fl. Ind. iii. p. 770 (non Tulasne); Wight, Ic. tt. 820, 821.—C.P. 773.
HAB. Common up to an elevation of 2000 feet. Nom. vulg. "Booambilla-gass."

2. **A. Bunius,** Spr., Syst. Veg. i. p. 826; Wight, Ic. t. 819; Tul. l. c. p. 186.—*A. Alexiteria,* Linn. (partim). *A. comptum,* Tul. l. c. p. 190. *A. floribundum,* Tul. l. c. p. 189. *Stilago Bunius,* Linn.; Roxb. Fl. Ind. iii. p. 758; Rheed. Hort. Mal. iv. t. 56.—C.P. 660 (766).
Var. β; *foliis* firmioribus; *inflorescentia* delicatiore et minus pubescente.—An *A. glabrum,* Tul. l. c. p. 188?—C.P. 2922.
HAB. Common up to an elevation of 3000 feet. Var. β; Caltura. Nom. vulg. "Carawilla-cabilla-gass."

3. **A. lanceolarium,** Wight, Ic. t. 776.—*A. lanceolatum,* Tul. l. c. p. 195. *Stilago lanceolaria,* Roxb. l. c. p. 760.—C.P. 2602.
HAB. Ambagamowa, Ratnapoora, and Galle Districts, up to an elevation of 1500 feet.

A very variable plant as regards the size and shape of the leaves. I have a small form from the Singe Rajah forest, in which the leaves are linear-lanceolate, and some of them not more than 2 lines wide, but there is a gradual transition to the ordinary form of the plant.

4. **A. Zeylanicum,** Lam. Encyc. Bot. i. p. 207; Spr. Syst. Veg. i. p. 826; Tul. l. c. p. 209.—*A. Alexiteria,* Linn. (partim); Burm. Thes. Zeyl. p. 22, t. 10. (An *A. sylvestris,* Lam. l. c.; Spr. l. c.; Rheed. l. c. v. t. 26?)—C.P. 2210.
HAB. Common in the hotter parts of the island. Nom. vulg. "Heenambilla-gass."

5. **A. montanum,** Thw.; arboreum; *ramulis, petiolis, inflorescentia*que cinereo-tomentellis; *foliis* integris, subglabris, ovatis vel oblongis, obtuse rostrato-acuminatis, superne ad costam canaliculatis, basi acutis: *racemis* paniculatis vel simplicibus, axillaribus terminalibusque; *bracteis* brevibus, latis, acutis; *floribus* sæpius 5-meris; *calyce* cupuliformi, *lobis* brevibus, rotundatis vel parum acutis.—C.P. 2208.
HAB. Central Province, at an elevation of 3000 to 6000 feet.

Arbor mediocris, ramosa. *Folia* 2–4 poll. longa, ¾–2 poll. lata, *petiolo* 2–5 lin. longo. *Pedicelli* calyce subæquilongi. FL. MASC. *Filamenta* in disco sublævi ovarium abortivum mamillæforme cingente inserta. FL. FŒM. *Fructus* subsphærici, parum compressi, pisi magnitudine, purpurei.

Closely allied to the preceding species, from which it differs in its larger leaves, canaliculate above, longer petioles, and pedicellate pentamerous flowers.

Digitized by Google

Euphorbiaceis affines.

48. DAPHNIPHYLLUM, Blume, Baill.

Goughia, Wight. *Gyrandra*, Wall.

1. **D. Neilgherrense,** Thw.—*Goughia Neilgherrensis*, Wight, Ic. tt. 1878, 1879.—C.P. 491.

HAB. Central Province, at an elevation of 4000 to 6000 feet.

49. SARCOCOCCA, Lindl.

1. **S. pruniformis,** Lindl. Bot. Reg. xii. t. 1012.—*S. trinervia*, Wight, Ic. t. 1877.—C.P. 203.

HAB. Central Province, very abundant at an elevation of 5000 to 8000 feet.

Extremely variable in the shape of the leaves, which differ from nearly orbicular to narrow-lanceolate acuminated.

50. PYRENACANTHA, Hook.

1. **P. volubilis,** Hook. Bot. Misc. ii. p. 108, tt. 9, 10.—C.P. 1024.

HAB. Hotter parts of the island.

CXXXV. CALLITRICHACEÆ.

1. CALLITRICHE, Linn.

1. **C. verna,** Linn.—*C. Wightiana*, Wall.; Wight, Ic. t. 1947.—C.P. 303, 3636.

HAB. Not uncommon in wet places, at Matturatte, Horton Plains, and other of the more elevated parts of the island.

CXXXVI. CERATOPHYLLACEÆ.

1. CERATOPHYLLUM, Linn.

1. **C. verticillatum,** Roxb. Fl. Ind. iii. p. 624.—*C. muricatum*, Cham. *C. tuberculatum*, Cham., et *C. Missionis*, Wall.; Wight, Ic. t. 1948.——C.P. 2311.

HAB. Hotter parts of the island.

There can be no doubt, I think, that Dr. Wight is correct in supposing that the three forms, figured by him in plate 1948 of the 'Icones,' are merely varieties of Roxburgh's plant.

CXXXVII. NEPENTHACEÆ.

1. NEPENTHES, Linn.

1. **N. distillatoria,** Linn. (Burm. Thes. Zeyl. p. 42, t. 17, cum syn.) —C.P. 262.

Digitized by Google

HAB. Very common in the south of the island, at no great elevation. Nom. vulg. "Bāndoorā-wel."

The long tough stems are used for tying fences, and for other purposes, by the Cinghalese.

CXXXVIII. ARISTOLOCHIACEÆ.

1. ARISTOLOCHIA, Tourn.

1. **A. bracteata,** Retz, (Willd. Sp. Pl. iv. p. 160; Roxb. Fl. Ind. iii. p. 490.)—C.P. 2256.
HAB. North of the island, *Gardner*.

2. **A. Indica,** Linn.; Roxb. l. c. p. 489.—*A. lanceolata,* Wight, Ic. t. 1858.—C.P. 2258.
HAB. Very abundant up to an elevation of 3000 feet.

Most variable in the size and shape of its leaves; and these, in some of my specimens of what I take to be the present species, seem to make an approach in form to those of *A. acuminata,* Lamk.

2. BRAGANTIA, Lour.

1. **B. Wallichii,** R. Br. in Wall. Cat. n. 7415; Wight, Ic. t. 520. —*B. siliquosa,* Miq. *Trimeriza piperina,* Lind. in Bot. Reg. xviii. sub tab. 1543.—C.P. 2257, 3457, 3533.
HAB. Shady woods, up to an elevation of 4000 feet.

Varies very much in the amount of pubescence; in the size and shape of its leaves, which are sometimes somewhat obovate; and in the length of the seed-vessel.

3. TRICHOPODIUM, Lindl., Endl.

Trichopus, Gærtn.

Flores hermaphroditi. *Perianthii lobi* 6, biseriales, persistentes. *Stamina* 6, libera, subsessilia, lobis perianthii opposita; *antheræ* loculis parum distantibus, parallelis, introrsis; *connectivo* in processum lanciformem terminalem anthera longiorem producto. *Ovarium* 3-loculare; *loculis* 2-ovulatis; *ovulis* pendulis superpositis. *Stylus* brevissimus. *Stigmata* 3, brevia, apicibus reflexis, bifidis.—Herba *glabra, subacaulis;* foliis *numerosis, petiolatis, forma valde variis;* stipulis *lanceolatis, acutis, persistentibus;* petiolis *in medio longitudinis florigeris;* floribus *fasciculatis, longiuscule pedicellatis;* bracteis *lanceolatis, acutis.*

1. **T. Zeylanicum,** Thw.—*T. cordatum, T. intermedium,* et *T. angustifolium,* Lindl. in Bot. Reg. xviii. sub tab. 1543. *Trichopus Zeylanicus,* Gærtner, De Fruct. p. 44, t. 14.—C.P. 467.
HAB. Common on the sandy margins of streams, at no great elevation. Nom. vulg. "Bin-tal."

Folia triangularia, lanceolata vel lineari-lanceolata, tri- vel tripli-nervia, 2–8 poll. longa, *petiolo* 1–8 poll. longo. *Flores* circiter 1 lin. longi, nigro-brunnei, lobis perianthii lanceolatis acutis. *Fructus* 6–7 lin. longi; *pedicello* longo, tenui, apicem versus incrassato.

Digitized by Google

CXXXIX. PIPERACEÆ.

1. PEPEROMIA, Ruiz and Pav.

1. **P. reflexa,** A. Dietr. (Miq. Fl. Ind. Bat. vol. i., pars altera, p. 436, cum syn.; Wight, Ic. t. 1923–1.)—C.P. 2462.

HAB. Common in the Central Province, up to an elevation of 6000 feet.

2. **P. Heyneana,** Miq. (Wight, Ic. t. 1922–1.)—An *P. Dindygulensis*, Miq. Syst. p. 112; Illust. Piper. p. 19, t. 13; Wight, Ic. t. 1921?—C.P. 2956.

HAB. Not uncommon in the Central and Southern Provinces.

Varies greatly in the amount of pubescence and in the shape and size of the leaves.

3. **P. Courtallensis,** Miq. in Hook. Lond. Journ. Bot. v. p. 549; Wight, Ic. t. 1923–2.—An *P. portulacoides*, A. Dietr.; Wight, Ic. t. 1922–2? An *P. Zeylanica*, Miq. l. c. p. 550?—C.P. 2173.

Var. β; *foliis* majoribus acutioribusque, sæpius alternis.—C.P. 2172. An species distincta?

HAB. Central Province, at an elevation of 3000 to 5000 feet.

2. POTHOMORPHE, Miq.

1. **P. subpeltata,** Miq. (Wight, Ic. t. 1925.)—C.P. 2714.

HAB. Common in damp shady places, up to an elevation of 4000 feet. Nom. vulg. "Mala-laboo."

3. CHAVICA, Miq.

1. **C. Roxburghii,** Miq. Syst. Piper. p. 239; Illust. Piper. p. 33. t. 30; Wight, Ic. t. 1928.—*Piper longum*, Linn.—C.P. 2953.*

HAB. Hotter parts of the island, not very common; also in native gardens. Nom. vulg. "Tippili."

2. **C. Siriboa,** Miq. Fl. Ind. Bat. vol. i., pars altera, p. 438, cum syn. —*Piper Siriboa*, Linn.—C.P. 3690.

HAB. Cultivated in native gardens as a masticatory, and considered not indigenous. Nom. vulg. "Rata-boolat-wel," "Siribo."

A species (C.P. 3691), called by the Cinghalese "Seewiya-wel," evidently very closely allied to the present, if not, as I suspect, a mere form of it, occurs upon large trees and on rocks, near the banks of rivers and streams, in the Central Province; but I have not yet been so fortunate as to meet with specimens in flower. The leaves are rather firmer in texture and less suddenly acuminated than in the cultivated *C. Siriboa*, but in other respects are very similar in character to those of the latter.

3. **C. Betle,** Miq. l. c. p. 439, cum syn.; Wight, Ic. t. 1926.—*Piper Betle*, Linn.—C.P. 3692.

HAB. Cultivated very generally, as a masticatory, in native gardens in the warmer parts of the island, but not truly wild. Nom. vulg. "Boolat-wel."

4. PIPER, Linn.

1. **P. nigrum,** Linn. (Miq. Illust. Piper. p. 50, t. 50; Wight, Ic. t. 1934.)—C.P. 2176.

Digitized by Google

HAB. Ambagamowa District; also extensively cultivated in native gardens. Nom. vulg. "Gam-mirris-wel."

2. **P. trineuron,** Miq. in Hook. Lond. Journ. of Bot. v. p. 555; Walp. Ann. i. p. 601.—C.P. 2175.
HAB. Central Province, at an elevation of 4000 to 7000 feet.

A very distinct species, characterized by its narrow very coriaceous leaves, closely adnate bracts, and somewhat distant flowers. The fruit is slightly oblong, 3 lines in diameter.

3. **P. sylvestre,** Lam. (Wight, Ic. t. 1937.)—An *P. hymenophyllum,* Miq. l. c. p. 554; Wight, Ic. t. 1942?—C.P. 3688.
HAB. On forest trees, up to an elevation of 2000 feet. Nom. vulg. "Mala-mirris-wel," "Wal-merris-wel," "Wal-gam-mirris-wel."

4. **P. argyrophyllum,** Miq. (Illust. Piper. p. 55. t. 56; Wight, Ic. t. 1941.)—An *P. Walkeri,* Miq. in Hook. Lond. Journ. of Bot. iv. p. 436; Walp. Ann. iii. p. 344?—C.P. 3625.
HAB. Central Province.

Closely allied to the preceding, from which it seems to differ but little, except in the texture and colour of the foliage and in its more oblong fruit.

5. **P. arborescens,** Roxb. (Fl. Ind. i. p. 159; Miq. Fl. Ind. Bat. vol. i., pars altera, p. 452; Illust. Piper. t. 54; Wight, Ic. t. 1940.)—*P. Linkii,* Miq. l. c. p. 53, t. 53. An *P. Zeylanicum,* Miq. in Hook. Journ. of Bot. iv. p. 436?—C.P. 35, 2461.
HAB. Central Province, up to an elevation of 3000 feet.

6. **P. arcuatum,** Blume, Enum. Pl. Jav. i. p. 67; Miq. Illust. Piper. p. 57, t. 48.—C.P. 2177, 2178.
HAB. More elevated parts of the Central Province.

Very nearly allied to the preceding, from which it differs principally in its smaller leaves, shorter spikes of flowers, and the distinctly peltate bracts of its male flowers.

CXL. CHLORANTHACEÆ.

1. CHLORANTHUS, Sw.

1. **C. brachystachys,** Blume, Fl. Jav. p. 13, t. 2; Miq. Fl. Ind. Bat. i. p. 801, cum syn.—*Ascarina serrata,* Bl. Enum. i. p. 80. *Sarcandra chloranthoides,* Gardner in Calc. Journ. of Nat. Hist. vi. p. 348; Walp. Ann. iii. p. 353; Wight, Ic. t. 1946.—C.P. 2207.
HAB. Not uncommon in forests of the Central Province, at an elevation of 3000 to 5000 feet.

CXLI. BALANOPHOREÆ.

1. BALANOPHORA, Forst.

1. **B. Indica,** Wall. Cat. 7247; Weddell in Ann. Sc. Nat. ser. 3, vol. xiv. p. 167, t. 9, fig. 11–22; Hook. f. in Trans. Linn. Soc. vol. xxii. p. 46.—*Langsdorffia Indica,* Arn. in Hook. Ic. Plant. tt. 205, 206, et in Ann. Nat. Hist. ii. p. 36.—C.P. 200.
HAB. Forests in the Central Province, at an elevation of 3000 to 5000 feet.

Digitized by Google

CXLII. TRIURIDEÆ.

1. SCIAPHILA, Blume, Endl.

† *Perianthio* 6-*partito*. *Staminibus in flore masc.* 3.—*Aphylleia*, Champion.

1. **S. secundiflora,** Thw. MS. (Bentham in Hook. Journ. of Bot. vii. (1855) p. 10.)—C.P. 2665.

HAB. Forest of Gattehatte, near Sittawake, at no great elevation.

Rhizoma repens, radicans. *Scapi* erecti, 6–14 poll. longi, albido-purpurascentes, pauciflori. *Bracteæ* latæ, acutæ. *Flores* racemosi, monoici. *Pedicelli* secundi, 1½–2½ lin. longi. *Perianthii segmenta* longe subulato-acuminata, imberbia, circiter 1¼ lin. longa. FLOR. MASC. superiores. *Antheræ* late sessiles, transverse oblongæ, contiguæ, albæ. FLOR. FŒM. *Ovaria* parum tuberculata. *Stylus* ovarium vix superans, clavato-penicillatus.

2. **S. erubescens,** Miers in Trans. Linn. Soc. xxi. 48.—*Aphylleia erubescens*, Champion in Calc. Journ. of Nat. Hist. vii. p. 468.—C.P. 2666.

HAB. Narawalla, near Galle, *Champion*. Ponee, near Colombo, *Mr. W. Ferguson*.

†† *Perianthio* 8-*partito*. *Staminibus in flore masc.* 4.—*Hyalisma*, Champ. Miers.

3. **S. janthina,** Thw.—*Hyalisma janthina*, Champion, l. c. p. 466; Miers, l. c. p. 49.—C.P. 2664.

HAB. Damp forests in the south of the island.

Obs. In all the specimens of the genus *Sciaphila* which I have examined, the number of stamens in the male flower is half that of the lobes of the perianth, to each alternate lobe of which a stamen is opposed.

CXLIII. CYCADEÆ.

1. CYCAS, Linn.

1. **C. circinalis,** Linn. Syst. Nat. quoad plant. Malab. et Zeylan. (syn. aliis excl.); Miq. Fl. Ind. Bat. ii. p. 1077, cum syn. (non *C. circinalis*, Roxb.).—*C. sphærica*, Roxb.; Roxb. Fl. Ind. iii. p. 747; Todda-Panna, Rheed. Hort. Mal. iii. tt. 13–21.—C.P. 3689.

HAB. In scrubby hilly ground, up to an elevation of 1500 feet. Nom. vulg. "Maddoo-gass."

The flour obtained from the seeds of this species is made into cakes and eaten by the Cinghalese, and is reputed a remedy for some disorders.

Digitized by Google

MONOCOTYLEDONES.

CXLIV. ORCHIDACEÆ.

Sect. 1. Malaxeæ, *Lindl.*

Subsect. Liparidæ, *Lindl.*

1. LIPARIS, Rich.

1. **L. atropurpurea,** Lindl. Gen. et Sp. Orch. p. 28.—*L. olivacea,* Wight, Ic. t. 903 (vix Lindl.). *L. Walkeriæ,* Wight, Ic. t. 905 (haud Grah.).—C.P. 3181.
Hab. More elevated parts of the Central Province.

2. **L. Walkeriæ,** Grah. in Bot. Mag. t. 3770 (haud Wight).—C.P. 2376.
Hab. Central Province, up to an elevation of 6000 feet.

Differs from the preceding in its smaller, more numerous flowers, and shorter pedicels; the labellum of the present plant is also more orbicular in outline and with deeper crenatures.

3. **L. Wightiana,** Thw.—*L. atropurpurea,* Wight, Ic. t. 904 (haud Lindl.).—C.P. 3179.
Hab. Central Province, at an elevation of 3000 to 5000 feet.

Folia 2–3, ovata, gradatim acuminata, basi cordata, parce obliqua. *Scapus* 3–12 poll., parum angulatus, pauciflorus. *Bracteæ* acutæ, suberectæ, pedicellis breviores. *Flores* viridi-purpurascentes. *Sepala* oblonga, acuta. *Petala* linearia, marginibus revolutis. *Labellum* sepalis longius, planum, orbiculare vel suborbiculare, integrum vel minute retusum, 4 lin. in diam., basi callo lunato ornatum. *Columna* exalata.

4. **L. odorata,** Lindl. l.c. p. 26, cum syn.—*L. elata,* Lindl. l.c. p. 27, cum syn.—C.P. 3180, 3375.
Hab. Central Province, at an elevation of 2000 to 5000 feet.

An extremely protean plant, varying from 3 to 18 inches or more in height, with leaves from 2 to 5 in number, and ovate or sometimes narrow-lanceolate in form. The size of the flowers also varies, and these are yellow in colour, more or less tinged with purple. There cannot be a doubt, I think, of this being the plant figured by Rheede in Hort. Mal. vol. xii. t. 28; but I have no recollection as to whether the flowers are sweet-scented or otherwise.

5. **L. barbata,** Lindl. l.c.
Hab. Ceylon, *Macrae (Hb. Lindl.).*

I know nothing of this plant.

6. **L. longipes,** Lindl. l. c. p. 30; Wall. Pl. Asiat. Rar. t. 35; Wight, Ic. t. 906.—C.P. 3177.
Hab. Common up to an elevation of 3000 feet.

My specimens have much smaller flowers than those of the plant represented in Wallich's figure. The labellum is twice the length of the column, very much recurved, and of a pale green colour.

7. **L. viridiflora,** Lindl. l. c. p. 31, cum syn.—*L. elliptica,* Wight, Ic. t. 1735.—C.P. 3178.

Digitized by Google

HAB. Central Province, on rocks and trunks of trees, at an elevation of 3000 to 7000 feet.

Dr. Wight's figure well represents the present plant.

8. **L. angustifolia,** Lindl. l. c.—C.P. 2351.
HAB. Central Province, at an elevation of 2000 to 5000 feet.

Folia 2–4 poll. longa, 2–3 lin. lata, mucronata, in petiolum gradatim angustata. *Flores* minimi. *Capsula* ovata, 1½ lin. longa.

9. **L. gregaria,** Lindl. l. c. p. 33, cum syn.—C.P. 2359.
HAB. Hantani and elsewhere in the Central Province.

Flores sæpe rubro-tincti. *Labellum* basi bicallosum, longitudinaliter canaliculatum, transverse flexuosum, apice subacutum reflexum. *Anthera* 6-angula.

2. OBERONIA, Lindl.

1. **O. forcipata,** Lindl. Fol. Orch. No. 7.—C.P. 2511.
HAB. Hewahette District, on trees.

2. **O. longibracteata,** Lindl. Gen. Sp. Orch. p. 3; Fol. Orch. No. 8. —C.P. 543.
HAB. Common in the Hantani and Hewahette Districts.

Flores pallide rufescentes, *labello* rufo.

3. **O. truncata,** Lindl. Fol. Orch. No. 12.
HAB. Hantani, *Champion* (*Herb. Lindl.*).

I am not acquainted with this species.

4. **O. verticillata,** Wight, Ic. t. 1626.
Var. β; *pubescens*, Lindl. Fol. Orch. No. 14.—C.P. 2516, 2572.
HAB. Kornegalle District.

5. **O. tenuis,** Lindl. l. c. No. 16.—C.P. 2654.
HAB. Hittàwaka, on trees: March, 1853.

6. **O. Wightiana,** Lindl. in Bot. Reg. 1839, misc. 9; Fol. Orch. cum. syn. No. 25; Wight, Ic. t. 1627.—*O. Arnottiana,* Wight, Ic. t. 1628.—C.P. 2506.
HAB. More elevated parts of the Central Province.

7. **O. Gardneriana,** Thw.; *bracteis* lanceolatis, acuminatis, integris, floribus subæquilongis; *sepalis* ovato-triangularibus, subacutis, integris; *petalis* oblongis, obtusis, denticulatis, parum reflexis.—C.P. 593.
HAB. Ambagamowa District, on trees, *Gardner*.

Folia lanceolata, mucronata, 1–3 poll. longa. *Spicæ* densifloræ, curvatæ, foliis longiores. *Flores* pallide rufescentes.

Closely allied to the preceding, with which I had confounded it; but the examination of recent specimens satisfies me that it is quite distinct.

8. **O. Scyllæ,** Lindl. Fol. Orch. No. 28.—C.P. 3124.
HAB. Matturatte, at an elevation of 5000 to 6000 feet: April, 1854.

3. MICROSTYLIS, Nutt.

1. **M. Rheedii,** Lindl. Gen. et Sp. Orch. p. 21, cum syn; Wight, Ic. t. 902.—*M. versicolor,* Lindl. l. c.; Wight, Ic. t. 901. An *M. luteola,* Wight, Ic. t. 1632?—C.P. 2375, 2743.
HAB. Common in shady forests in the Central Province.

Extremely variable in size and in the intensity of colour of the flowers and foliage.

Digitized by Google

I cannot doubt that the plant figured in Rheed. Hort. Mal. xii. t. 27 is the present species.

2. **M. discolor,** Lindl. p. 20; Wight, Ic. t. 1631.—C.P. 3698.
HAB. Damp forests in the Central Province.

This is very closely allied to the preceding, but the leaves are somewhat different in shape and more deeply tinged with purple; and, besides having the labellum edentulate, the sepals are relatively a good deal shorter than in *M. Rheedii.*

3. **M. lancifolia,** Thw.; cæspitosa; *caule* brevi; *foliis* lanceolatis vel lineari-lanceolatis, mucronatis; *scapo* elongato, pluri-bracteato; *bracteis* acuminatis, suberectis; *floribus* racemosis.—C.P. 2742.
HAB. On trunks of trees in the Saffragam District.

Folia 4–6, 1½–3½ poll. longa, 2–4 lin. lata. *Flores* flavidi, quoad structuram iis præcedentis simillimi. *Labellum* concavum margine dentata, nec reflexa. *Capsula* oblonga, 6-costata, 3 lin. longa, *pedicello* 2 lin. longo.

4. **M. purpurea,** Lindl. l. c. p. 20.
HAB. Ceylon, *Macrae* (*Herb. Lindl.*).

I know nothing of this plant.

4. DIENIA, Lindl.

1. **D. fusca,** Lindl. Gen. et Sp. Orch. p. 22.—C.P. 3182.
HAB. Central Province, *Macrae.*

Subsect. DENDROBIDÆ, *Lindl.*

5. DENDROBIUM, Swartz.

1. **D. Macræi,** Lindl. Gen. et Sp. Orch. p. 75; Linn. Soc. Proc. iii. p. 6.—*D. nodosum,* Dalzell in Hook. Journ. of Bot. iv. (1852) p. 292. —C.P. 3695.
HAB. On trees, in the Central Province, not uncommon.

Flores sæpius bini, aliquando solitarii vel terni.

2. **D. crumenatum,** Swartz. (Lindl. Gen. et Sp. Orch. p. 88.)—C.P. 3696.
HAB. Common on the trunks of Cocoa-nut and other trees in the hotter parts of the island.

3. **D. aureum,** Lindl. l. c. p. 77; Wight, Ic. t. 1646.—*D. heterocarpum,* Wall. *D. rhombeum,* Lindl. in Bot. Reg. new ser. vol. xvii. t. 17.—C.P. 574.
HAB. More elevated parts of the Central Province.

4. **D. Maccarthiæ,** Thw. in Bot. Mag. t. 4886.—C.P. 3462.
HAB. Forest between Ratnapoora and Galle, flowering in May. Nom. vulg. "Wissak-mal."

Caules penduli, flagelliformes, teretes, striati, versus apicem foliosi, 1½–2-pedales; *nodis* parce tumidis; *internodis* 1½–2 poll. longis. *Folia* pauca, lanceolata, 2½–3 poll. longa, ¾–1 poll. lata. *Racemi* laterales, 4–5-flori. *Pedunculi* basi bracteati. *Pedicelli* pallidi, 10–12 lin. longi. *Flores* pallide purpurei. *Sepala* lanceolata, 2½–3 poll. lata. *Petala* subæquilonga, latiora. *Labellum* subtrilobum vel subtrapeziforme, apice rotundatum, disco atro-purpureo. *Columna* albida, subquadrata. *Mentum* conicum, semiapertum, semipollicaris.

5. **D. macrostachyum,** Lindl. Gen. et Sp. Orch. p. 78; Wight, Ic. t. 1647.—C.P. 3183.

Digitized by Google

HAB. Common in the Central Province and Saffragam District.

6. **D. nutans,** Lindl. l. c. p. 90; Linn. Soc. Proc. iii. p. 17 in adnot. —*D. Jerdonianum*, Wight, Ic. t. 1644.—C.P. 2357.

HAB. Central Province, at an elevation of 4000 to 6000 feet.

A variable plant in the shape of the leaves and colour of the flowers, which latter are dark-ochraceous or sometimes nearly white.

7. **D. sanguinolentum,** Lindl. in Bot. Reg. new ser. vol. xvi. p. 62.

HAB. Ceylon, *Nightingale*.

I am not acquainted with this species.

8. **D. purpurascens,** Thw.; cæspitosum; *caulibus* brevissimis; *foliis* paucis, lineari-lanceolatis, apice angustatis, retusis, mucronatis; *racemis* foliis subæquilongis, 1–3-floris; *labello* sepalis petalisque latioribus lineari-lanceolatis æquilongo, indiviso, obtuso, versus apicem parum dilatato cymbiformique, minute crenulato; *mento* brevi, rotundato; *columna* sursum incrassata, margine utrinque breve 3-dentata.—C.P. 2352.

HAB. More elevated parts of the Central Province.

Folia 1–4 poll. longa, 2–6 lin. lata, sæpe purpurascentia. *Flores* albidi, semipollicares, columna atropurpurea. *Bracteæ* breves, rotundatæ.

9. **D. panduratum,** Lindl. in Linn. Soc. Proc. iii. p. 19.—An *D. graminifolium*, Wight, Ic. t. 1649?—C.P. 2353.

HAB. Central Province, up to an elevation of 6000 feet.

Cæspitosum. *Folia* lanceolata, 1–1½ poll. longa, *Flores* albidi, purpureo-tincti, semipollicares.

6. BOLBOPHYLLUM, Thouars.

1. **B. elegans,** *Gard. MS.; scapo* unifloro; *sepalis lateralibus* in saccum oblongum, acuminatum, superne ad basin apertum cohærentibus, *dorsali* ovato, acuto, libero, duplo longioribus; *petalis* parvis, lanceolatis; *labello* valde carnoso, 3-lobo, *lobis lateralibus* brevibus, truncatis, erectis, *terminali* porrecto, linguæformi, apiculato, fere ad apicem fossulato.—C.P. 2350.

HAB. Hantani and Ambagamowa Districts, at an elevation of 3000 to 5000 feet.

Rhizoma repens. *Pseudobulbi* mediocres. *Folia* solitaria, lineari-lanceolata, utrinque gradatim angustata. *Flores* 1–1½ poll. longi, viridi-purpurascentes, maculis purpureis plus minus conspersi, venis purpureis. *Labellum* flavum, purpureo-maculatum. *Columna* bicornis, flavida.

2. **B. petiolare,** Thw.; *pseudobulbis* parvis, confertis; *foliis* solitariis, ovatis, retusis, in petiolum longum angustatis; *floribus* capitatis; *sepalis* æqualibus, oblongis, acutis, quam petala plus quam duplo longioribus; *labello* obscure 3-lobo, late linguæformi, obtuso, convexo, medio profunde sulcato reflexoque.—C.P. 3184.

HAB. Ambagamowa, rare.

Bracteæ parvæ, rotundatæ, acutæ. *Capitula* circiter 4-flora. *Flores* 3 lin. longi, pallide ochracei, venis rubris.

3. **B. purpureum,** Thw.; *pseudobulbis* ovoideis, confertis; *foliis* solitariis, spathulato-ovatis, retusis; *floribus* capitatis; *sepalis* quam petala duplo longioribus; *lateralibus* in unum apice retusum cohærentibus,

Digitized by Google

dorsali libero; *labello* obscure 3-lobo, valde carnoso, medio profunde sulcato reflexoque, apice obtuso.—C.P. 3697.

HAB. Matolle, rare.

Bracteæ minutæ. *Capitula* 6-8-flora. *Flores* 1½–2 lin. longi, pallide purpurei, venis purpureis.

7. CIRRHOPETALUM, Lindl.

1. **C. Macræi,** Lindl. Gen. et Sp. Orch. p. 59 (haud Wight).—*C. Walkerianum,* Wight, Ic. t. 1657—C.P. 2362.

HAB. Hantani and Hewahette districts, at an elevation of 3000 to 4000 feet.

2. **C. grandiflorum,** Wight, Ic. t. 1656.—C.P. 3657.

HAB. Central Province, in the Maturatte and other districts, at an elevation of 3000 to 6000 feet.

3. **C. Wightii,** Thw.—*C. Macræi,* Wight, Ic. t. 1652 (haud Lindl.) —C.P. 3160, 2740 (632).

HAB. Central Province, at an elevation of 4000 to 7000 feet.

Flores albidi vel pallide flavi, plus minus rubro-maculati, vel omnino pallide virides. *Sepala lateralia* linearia vel lineari-lanceolata, obtusa, *dorsali* rotundato, apiculato 3–4-plo longiora. *Petala* parva, acuta, minute serrulata. *Labellum* carnosum, linguæforme, canaliculatum.

Very variable in size and in the colour of the flowers: or, possibly, further observation may show that I have confounded two distinct though closely allied species.

8. PHREATIA, Lindl.

1. **P. elegans,** Lindl. Gen. et Sp. Orch. p. 63.—C.P. 3186.

HAB. Central Province, *Macrae.*

9. ERIA, Lindl.

1. **E. bicolor,** Lindl. Gen. et Sp. Orch. p. 65 (haud in Linn. Soc. Proc. iii. p. 58).—C.P. 2982.

HAB. Central Province, at an elevation of 4000 to 7000 feet.

Flores albi, *columna labello*que ad basin plus minus rubro-tinctis.

2. **E. Lindleyi,** Thw.—*E. bicolor,* Lindl. in Linn. Soc. Proc. iii. p. 58 (haud Gen. et Sp. Orch. p. 65).—*Dendrobium bicolor,* Lindl. l. c. p. 90.—C.P. 2761.

HAB. Central Province, common up to an elevation of 7000 feet.

3. **E. braccata,** Lindl. in Linn. Soc. Proc. iii. p. 46.—*E. reticosa,* Wight, Ic. t. 1637. *E. uniflora,* Dalzell in Hook. Journ. of Bot. iv. p. 111.—*Dendrobium braccatum,* Lindl. Gen. et Sp. Orch. p. 75.—C.P. 2356.

HAB. Central Province, not uncommon.

4. **E. muscicola,** Lindl. in Linn. Soc. Proc. iii. p. 47.—An *Dendrobium muscicola,* Lindl. Gen. et Sp. Orch. p. 75?—C.P. 2355.

HAB. Trunks of trees in the Central Province, at an elevation of 4000 to 7000 feet.

Folia acuta. *Pedunculi* 2–5-flori. *Labellum* acuminatum.

5. **E. velutina,** Thw.; molliter pubescens; *rhizomate* repente; cau-

Digitized by Google

libus brevibus, adscendentibus, 5–7-foliis; *foliis* anguste lanceolatis, coriaceis, subacutis; *pedunculis* terminalibus, solitariis vel 2-nis, paucifloris, folio longioribus; *sepalis* obtusis, *lateralibus* valde obliquis, *dorsali* lineari-lanceolato, cum petalis conformi: *labello* subcarnoso, linguæformi, recurvato, parum concavo, *lobis lateralibus* parvis, *terminali* rotundato, incrassato, papilloso.—C.P. 2349.

HAB. Dolosbage, in the Central Province, at an elevation of 3000 feet.

Folia 2–4 poll. longa. *Bracteæ* 3–4 lin. longæ. *Flores* parvi, flavi, siccitate rufescentes. *Columna* brevis, simplex. *Capsula* 6-costata.

10. ALWISIA, Lindl. Fol. Orchid.

1. **A. tenuis,** Lindl. l. c.—*Eria articulata*, Lindl. in Linn. Soc. Proc. iii. p. 47.—C.P. 2655.

HAB. Ambagamowa District, at no great elevation.

Sect. 2. EPIDENDREÆ, *Lindl.*

Subsect. CŒLOGYNIDÆ, *Lindl.*

11. CŒLOGYNE, Lindl.

1. **C. breviscapa,** Lindl. Fol. Orch. No. 9.—*C. angustifolia*, Wight, Ic. t. 1641 (haud A. Rich.).—C.P. 3121.

HAB. Not uncommon in the more elevated parts of the Central Province.

2. **C. odoratissima,** Lindl. Gen. et Sp. Orch. p. 41; Fol. Orch. No. 10; Wight, Ic. t. 1640.—C.P. 518 (666, 667).

HAB. Newera Ellia and other elevated parts of the Central Province.

12. PHOLIDOTA, Lindl.

1. **P. imbricata,** Lindl. Gen. et Sp. Orch. p. 36; Wight, Ic. t. 907. —C.P. 3187.

HAB. Very common on the trunks of trees, up to an elevation of 3000 feet.

Subsect. BLETIDÆ, *Lindl.*

13. PHAIUS, Lour.

1. **P. bicolor,** Lindl. Gen. et Sp. Orch. p. 128; Wight, Ic. tt. 1659, 1660.—C.P. 2368.

HAB. Central Province, at an elevation of 2000 to 4000 feet.

Flores 3–4 poll. in exp. *Sepala petalisque* flava, plus minus rubro-tincta.

2. **P. luridus,** Thw.; caulescens, *foliis* lanceolatis, acutis, glabris; *sepalis* cum *petalis* parum angustioribus lanceolatis, acutis; *labello* cucullato, rotundato, obscure trilobo, undulato, superne sparsim piloso et lineis duabus contiguis elevatis antice rugulosis ornato, subtus lævi, medio sulcato; *calcare* brevissimo; *columna* antice parum dilatata, parce pilosa, apice denticulata; *anthera* pilosa.—C.P. 613.

HAB. Rakwane, in the Saffragam District.

Digitized by Google

Terrestris. *Caulis* simplex, bipedalis. *Scapi* (in meis specim.) 2, foliis æquilongi, pluriflori. *Bracteæ* oblongæ, acutæ. *Flores* 2 poll. in exp. *Sepala petala*que flavo-viridi-rufescentia. *Labellum* flavum, utrinque macula rubra irregulari-notatum.

14. ARUNDINA, Blume.

1. **A. minor,** Lindl. Gen. et Sp. Orch. p. 125.—C.P. 485.

HAB. Not very uncommon amongst grass in swampy places in the Central Province, up to an elevation of 4000 feet.

15. IPSEA, Lindl.

1. **I. speciosa,** Lindl. Gen. et Sp. Orch. p. 124 (Wight, Ic. t. 1663). C.P. 2364.

HAB. Not uncommon amongst long grass on exposed hillsides, at an elevation of 4000 to 5000 feet.

16. APATURIA, Lindl.

1. **A. montana,** Lindl. Gen. et Sp. Orch. p. 131.—C.P. 3189.

HAN. Ambagamowa District, rare.

Scapus bipedalis, stramineus, plus minus purpureo-tinctus, basi squamis brevibus tectus. *Bracteæ* lineari-lanceolatæ, acutæ, reflexæ. *Flores* straminei, externe basi apiceque purpurei.

17. ANIA, Lindl.

1. **A. bicornis,** Lindl. in Bot. Reg. xv. new ser. misc. p. 37.—*A. latifolia*, Wight, Ic. t. 914 (haud Lindl.); "*folio* oblongo-lanceolato, carnoso, scapo breviore; *labelli* lobo medio emarginato, apiculato, basi lamellato, lamella tertia versus apicem interjecta; *anthera* bicorni," Lindl. l. c.—C.P. 3190.

HAB. Hantani, in the Central Province, at an elevation of 3000 feet.

Tota planta plus minus purpureo-tincta. *Sepala petala*que pallide flavo-viridia, purpurascentia.

2. **A. maculata,** Thw.; *folio* lanceolato, delicatule venuloso, longiuscule petiolato; *scapo* subæquilongo; *sepalis petalis*que subconformibus, lanceolatis, acutis; *labello* 3-lobo, disco trilamellato, *lobis lateralibus* parum brevioribus, erectis, obtusis, *intermedio* rotundato, subacuto, concavo; *calcare* brevi, cylindrico, truncato.—C.P. 3515.

HAB. A single specimen collected at Hapootelle, at an elevation of 5000 feet.

Glabra. *Pseudobulbus* conicus. *Scapus* bipedalis. *Bracteæ* anguste lanceolatæ, acutæ, flore breviores. *Sepala petala*que pallide viridia, hæc seriebus linearibus 6, illa 4 macularum purpurearum longitudinaliter notata. *Labellum* album, interne versus basin purpureo-maculatum. *Columna* flava.

Sect. 3. VANDEÆ, *Lindl.*

Subsect. SARCANTHIDÆ, *Lindl.*

18. EULOPHIA, R. Br.

1. **E. macrostachys,** Lindl. Gen. et Sp. Orch. p. 183 (Wight, Ic. tt. 1667, 1668).—C.P. 3188.

Digitized by Google

HAB. Not uncommon in the Central Province, up to an elevation of 4000 feet.

2. **E. virens,** R. Br. (Lindl. l. c. p. 182, cum syn.; Wight, Ic. t. 913.) —C.P. 2369.
HAB. Central Province, not very common.

3. **E. grandiflora,** Lindl. l. c. p. 181.
HAB. Ceylon, *Macrae (Herb. Lindl.).*

I have not met with this species, nor is there a specimen of it in this herbarium.

4. **E. explanata,** Lindl. l. c. p. 180.
HAB. Ceylon, *Macrae (Herb. Lindl.).*

I am not acquainted with this species.

19. CYRTOPERA, Lindl.

1. **C. rufa,** Thw.; *rhizomate* tuberoso; *scapo* squamis distantibus circiter 3 vaginato; bracteis anguste lanceolatis, ovario æquilongis; *sepalis* æqualibus, oblongo-lanceolatis, acutis, quam *petala* obovata acuta parum longioribus; *labello* cucullato, 3-lobo, interne venis pilosis, *lobis lateralibus* obtusis, *intermedio* rotundato, apiculato æquilongis; *calcare* brevi, obtuso; *columna* lineari, ad medium parum contracta.—C.P. 3566.
HAB. Hantani, at an elevation of 3000 feet.

Scapus bipedalis, rufescens. *Flores* rufi, 2 poll. in exp. *Capsula* oblonga, obtuse sexangula, 2½ poll. longa, 1 poll. in diam. *Folia* nondum vidi.

2. **C. Gardneri,** Thw.; acaulis; *rhizomate* tuberoso; *foliis* anguste lanceolatis, plicatis; *scapo* foliis æquilongo, 6–12-floro; *sepalis* æqualibus, lanceolatis, acutis, quam *petala* oblonga longioribus; *labello* parum saccato, 3-lobo, disco lineis pluribus elevatis ornato, *lobis lateralibus* latis, brevibus, rotundatis, erectis, *intermedio* reflexo, ovato, undulato, obtuso.—*C. laxiflora,* Gardn. MSS.—C.P. 2370.
HAB. Central Province, up to an elevation of 3000 feet.

Scapus bipedalis, rufescens. *Bracteæ* anguste lanceolatæ, acutæ, ovario breviores. *Sepala* pollicaria, pallide viridia, plus minus rufescentia. *Petala* albida. *Labellum* albidum vel pallide flavum, disco rubro-tincto.

20. LUISIA, Gaud.

1. **L. tenuifolia,** Blume, Mus. Bot. Lugd. Bat. i. p. 64; Lindl. Fol. Orchid. No. 3, cum syn.—*Cymbidium tenuifolium,* Lindl. Gen. et Sp. Orch. p. 167.—An Wight, Ic. t. 1689?—C.P. 3530.
HAB. On trees in the Central Province, up to an elevation of 3000 feet.

Flores albidi, *sepalis petalis*que pallide purpurascentibus. *Labelli lobi laterales* parvi, interne purpurei; *intermedius* oblongus, disco convexo marginibusque atropurpureis, postice lævis, antice convexus, 4-sulcatus, apice flavidus, planus, truncatus, breve bilobus.

2. **L. Zeylanica,** Lindl. Fol. Orch. No. 7.—C.P. 2347.
HAB. Common on trees in the Central Province.

3. **L. bicaudata,** Thw.; caulescens; *foliis* membranaceis, lineari-lanceolatis, acutis, parum falcatis, apice breve bifidis, parce obliquis; *racemis* oppositifoliis, folio longioribus; *sepalis* ovatis, acutis, dorso ad apicem alato-carinatis; *petalis* parum angustioribus, ecarinatis; *labello*

Digitized by Google

inflato-cymbiformi, apice abrupte angustato, longe subulato-bifido.—C.P. 3494.

HAB. Ambagamowa and Saffragam Districts.

Folia 3–4 poll. longa, ¾ poll. lata. *Flores* ¾ poll. in exp., flavi, *labello* interne postice late carinato, antice versus marginem radiatim rubro-lineato.

21. COTTONIA, Wight, Ic. t. 1755.

1. **C. peduncularis.**—*C. macrostachya*, Wight, l. c.—*Vanda peduncularis*, Lindl. Gen. et Sp. Orch. p. 216.—C.P. 2361.

HAB. Warmer parts of the Central Province.

*Sepala petala*que reflexa, fusca, venis marginibusque flavis. *Labellum* atro-purpureum, margine pilosula fossulaque flavis, lobis lateralibus parvis adnatis auriculatum, oblongum, convexum, medio constrictum, prope basin rigide pilosum et tuberculo parvo stipitato piloso munitum, a medio versus apicem abrupte fossulatum. *Columna* erecta, apice triloba, lobis lateralibus minoribus gibbis, delicatule muricatis.

22. VANDA, R. Br.

1. **V. Roxburghii,** R. Br. in Bot. Reg. t. 506; Bot. Mag. t. 2245; Wight, Ic. t. 916.—C.P. 2346.

HAB. Hot, drier northern parts of the island.

2. **V. spathulata,** Spreng. (Lindl. Gen. et Sp. Orch. p. 216; Fol. Orchid.; Wight, Ic. t. 915.)—C.P. 2345.

23. ACAMPE, Lindl. Fol. Orchid.

1. **A. Wightiana,** Lindl. l. c.—*Vanda Wightiana?*, Wight, Ic. t. 1670. *V. fasciata*, Gardn. MSS.—C.P. 2342.

Var. β; *foliis* latioribus; *pedunculis* elongatis, ramosis.—C.P. 3392.—An species distincta?

HAB. Jaffna, *Gardner*. Hantani.—Var. β. Ambagamowa and Hunasgiria Districts.

*Sepala petalis*que flava, interne transverse rubro-striata. *Labelli* lamina triangulari-ovata, parce transverse rubro-striata, convexa, subcarinata, basi tuberculata, (in meis specim.) edentata.

I suspect that var. β will prove to be a distinct species, but until I have an opportunity of examining fresh specimens of it I cannot determine satisfactorily.

2. **A. congesta,** Lindl. l. c.—*Vanda congesta*, Lindl. in Bot. Reg. 1839, Misc. n. 39.

HAB. Ceylon, *Loddiges*.

I know nothing of this species except from Dr. Lindley's description.

24. SACCOLABIUM, Blume.

1. **S. guttatum,** Lindl. Gen. et Sp. Orch. p. 220, cum syn.; Wight, Ic. tt. 1745, 1746.—C.P. 2344.

HAB. Hot, dry, northern parts of the island, on trees.

2. **S. curvifolium,** Lindl. l. c. p. 222.

HAB. Ceylon, *Macrae* (*Herb. Lindl.*).

With this species I am not acquainted, and there is neither specimen nor drawing of it in this collection.

Digitized by Google

3. **S. lineolatum,** Thw.; caulescens; *foliis* linearibus, canaliculatis, oblique retusis; *racemis* ramosis, multifloris; *sepalis petalis*que parum minoribus oblongis, obtusis; *labelli lamina* sagittato-triloba, lobis lateralibus acutis recurvis, intermedio majore, ovato, obtuso; *calcare* cylindrico.—C.P. 2741.

HAB. On trees in the Central Province, up to an elevation of 3000 feet.

Folia 6–8 poll. longa, ½ poll. lata. *Sepala petala*que circiter 3 lin. longa, flava, interne delicatule transverse rubro-striata. *Labelli* lamina alba, sparsissime rubro-maculata. *Calcar* flavum. *Capsula* cylindrica, 2 poll. longa, 3 lin. lata.

4. **S. niveum,** Lindl. l. c. p. 224.—C.P. 2340.

HAB. Central Province, not uncommon, at an elevation of 3000 to 4000 feet.

Labelli lamina carnosa, concava, obtusa. *Pollinia* aurantiaca. *Capsula* 2 lin. longa.

5. **S. acuminatum,** Thw.; caulescens; *foliis* carnosulis, lanceolatis, acuminatissimis; *racemis* lateralibus, brevibus; *sepalis petalis*que parum minoribus obovatis, obtusis; *labelli calcare* cylindrico, interne dente dorsali parvo bifido, *lamina* æquilonga, triloba, lobis lateralibus obtusis, intermedio ovato, concavo, obscure retuso.—C.P. 3376.

HAB. Saffragam District, at no great elevation.

Folia 4–5 poll. longa, 3 lin. lata. *Racemi* bipollicares. *Flores* 3 lin. in exp. *Sepala petala*que pallide viridia, fulvo-marginata. *Labellum* albidum, lobis lateralibus rubris. *Capsula* reflexa, 8 lin. longa.

The dorsal tooth within the labellum of this species indicates an approach to *Cleisostoma.*

6. **S. gracile,** Lindl. l. c. p. 225.—C.P. 2528.

HAB. Hantani, in the Central Province, at an elevation of 3000 feet.

7. **S. roseum,** Lindl. l. c.—*Sarcanthus Walkerianus,* Wight, Ic. t. 1686. —C.P. 489.

HAB. Common upon trees in the Central Province, up to an elevation of 4000 feet.

8. **S. brevifolium,** Lindl. l. c.; Linn. Soc. Proc. iii. p. 35.—*S. virescens,* Gardn. MSS.—C.P. 488, 2341.

HAB. Common in forests in the Central Province. The variety with deep red flowers and more coriaceous leaves occurs at an elevation of 6000 to 8000 feet.

25. SCHŒNORCHIS, Blume.

1. **S. juncifolia,** Blume; Lindl. Gen. et Sp. Orch. p. 243.—*Sarcanthus filiformis,* Wight, Ic. t. 1684. *S. roseus,* Wight, Ic. t. 1685.—C.P. 633.

HAB. Trees in forests in the Central Province, at an elevation of 4000 to 6000 feet.

This would seem to be scarcely generically distinct from *Saccolabium.*

26. CLEISOSTOMA, Blume.

1. **C. maculosa,** Lindl. Gen. et Sp. Orch. p. 227.—C.P. 3193.

HAB. Central Province, not common.

Digitized by Google

Folia subtus præcipue versus basin, cum *pedunculis capsulis*que, creberrime purpureo-maculata. *Flores* flavidi, plus minus rubro-tincti.

2. **C. acaulis,** Lindl. l. c.—*Vanda fimbriata,* Gardn. MSS.—C.P. 3191.

HAB. Hantani, on trees, rare, *Gardner.*

Labellum saccatum, trilobum, lobis lateralibus brevibus, carnosis, erectis, parum acutis, antice convergentibus, terminali omnino externo, subtriangulari, fimbriato, reflexo.

3. **C. galeata.**—*Saccolabium galeatum,* Gardn. MSS.—Caulescens, *foliis* coriaceis, linearibus, obliquis, obtusis, emarginatis; *floribus* racemosis vel subpaniculatis, ad apicem pedunculi folio subæquilongi confertis; *sepalis petalis*que conformibus, obovato-spathulatis, obtusis; *labelli* saccati lobis lateralibus brevibus, truncatis, carnosis, terminali parvo, ovato, retuso, parce papilloso; *dente dorsali* triangulari, apice emarginato.—C.P. 2343.

HAB. Not uncommon on trees in the Central Province.

Folia 6 poll. longa, ½ poll. lata. *Flores* circiter 4 lin. in exp., flavi, rubro-maculati. *Capsulæ* 1 poll. longæ, 2 lin. latæ.

27. TÆNIOPHYLLUM, Blume.

1. **T. Alwisii,** Lindl. in Linn. Soc. Proc. iii. p. 42.—C.P. 3195.

HAB. Ambagamowa District. A single specimen detected upon the branch of a *Symplocos,* by Mr. H. De Alwis, the draftsman of the Peradenia Garden.

Minutum, acaule, aphyllum. *Radices* virides, carnosæ, repentes, complanatæ. *Scapus* erectus, ½ poll. longus. *Bracteæ* carinatæ. *Flores* spicati, pauci, minutissimi, pallide virides. *Sepala petala*que conformia, cum labello in perianthium acute 6-dentatum connata. *Labellum* saccatum, lamina cymbiformi, marginibus liberis. *Columna* brevis. *Pollinia* 4, pyriformia, in glandulam sessilia. *Anthera* quadrata, subquadrilocularis.

28. OCTARRHENA, Thw. (gen. nov.)

Sepala æqualia, libera. *Petala* multo minora. *Labellum* petalis subconforme, parum cymbiforme. *Columna* brevissima, subhemisphærica. *Stigma* transverse oblongum. *Pollinia* 8 (4–4) libera, sphærica; *caudicula* lineari, medio bifurca; *glandula* parva, rotundata.

Herba parva, epiphyta, caulescens, cæspitosa; *foliis* distichis, subcylindricis, acutis; *racemis* axillaribus, paucifloris; *floribus* minutis, pallide viridibus.

1. **O. parvula,** Thw.—C.P. 3072.

HAB. Central Province, on forest trees, at an elevation of 3000 to 4000 feet.

29. AERIDES, Lour.

1. **A. Wightianum,** Lindl. Gen. et Sp. Orch. p. 238; Linn. Soc. Proc. iii. p. 40, cum syn; Bot. Mag. t. 5138.—*A. testaceum,* Lindl. Gen. et Sp. Orch. p. 238. *Vanda parviflora,* Lindl.; Wight. Ic. t. 1669.—C.P. 752.

HAB. Not uncommon upon trees, up to an elevation of 3000 feet.

2. **A. tessellatum,** Wight, (Lindl. l.c. p. 240?)—C.P. 3378.

Digitized by Google

Hab. Hunasgiria District; *Mr. H. De Alwis.*

Sepala pollicaria, lateralia obovata, dorsale *petala*que conformia angustiora, omnia pallide fusco-viridia, interne rubro-lineata maculataque. *Labelli* albidi calcar conicum; laminæ lobi laterales erecti, acuti; terminalis major, ovatus, retusus, flavo-tinctus, lineis rubris circiter 8 longitudinaliter notatus.

The above description is taken from a carefully executed drawing in this library: I have not seen the plant in a fresh state, nor are there specimens of it in the herbarium.

3. **A. cylindricum,** Lindl. l.c. (Wight, Ic. t. 1744.)—C.P. 2348.

Hab. On trees, not uncommon up to an elevation of 3000 feet.

Flores albidi. *Labelli* lobi laterales interne longitudinaliter delicatule purpureo-striati, intermedius disco luteus, 4-sulcatus, apice purpureo-maculatus.

30. DENDROCOLLA, Blume.

1. **D. serræformis,** Lindl. MSS. *Liparis serræformis,* Lindl. l. c. 33. —C.P. 3209.

Hab. Ambagamowa and Saffragam Districts, rare.

*Sepala petala*que lanceolata, acuta, hæc angustiora. *Columna* brevis, gibba. *Pollinia* 4, 2 interiora multo minora. *Anthera* rotundata.

31. ŒCEOCLADES, Lindl.

1. **Œ. tenera,** Lindl. Gen. et Sp. Orch. p. 236 (Wight, Ic. t. 1683). —C.P. 2983.

Hab. Central Province, on trees, at an elevation of 3000 to 5000 feet.

*Sepala petala*que flava vel pallide viridia, sæpe venis rubris. *Labelli* laminæ lobi laterales truncati, parum rotundati crenulatique, petalis concolores, intermedius albus, calcar breve, cylindricum, dente interno dorsali truncato parum emarginato clausum.

32. DIPLOCENTRUM, Lindl.

1. **D. recurvum,** Lindl. Gen. et Sp. Orch. p. 218; Wight, Ic. t. 1680. —An *D. longifolium,* Wight, Ic. t. 1681.—C.P. 3192.

Hab. Central Province, *Gardner.*

33. ANGRÆCUM, Thouars.

1. **A. zeylanicum,** Lindl. in Linn. Soc. Proc. vol. iii. p. 40—C.P. 3693.

Hab. Narawelle, near Galle, *Champion.*

34. APPENDICULA, Blume.

1. **A. longifolia,** Blume, Bijdr. p. 304; Lindl. Gen. et Sp. Orch. p. 230?—C.P. 3208.

Hab. Ambagamowa District, rare.

Folia 3–5 poll. longa, ½ poll. lata, retusa, mucronata.

The present agrees very well with Blume's description, but in my specimens the flowers are not in a sufficiently perfect state for analysis.

35. PODOCHILUS, Blume.

1. **P. falcatus,** Lindl. Gen. et Sp. Orch. p. 234.—C.P. 2527.

Digitized by Google

HAB. Common in the Central Province, at an elevation of 3000 to 6000 feet.

2. **P. saxatilis,** Lindl. l.c. p. 235.—C.P. 3194.
HAB. Hantani and Ambagamowa Districts.

36. CYLINDROCHILUS, Thw. (gen. nov.)

*Sepala petala*que subconformia, patentia. *Labellum* cylindrico-cucullatum, brevi-saccatum, erectum, columnæ basi producta articulatum, 3-lobum, lobis lateralibus oblongis, obliquis, intermedio brevissimo, truncato. *Columna* brevis, antice excavata. *Pollinia* 2, bipartibilia, rotundata, compressa, medio caudiculæ latæ brevis affixa; *glandula* parva, rotundata. *Anthera* rotundata, bilocularis.—Herba *epiphyta, caulescens,* foliis *coriaceis, lineari-oblongis, oblique retusis*; pedunculis *lateralibus;* floribus *paucis, capitatis;* capsulis *longiusculis, cylindricis.*

1. **C. pulchellus,** Thw.—C.P. 2354.
HAB. Central Province and at Kornegalle, up to an elevation of 2000 feet.

Flores albi, 7 lin. in exp. *Labellum* interne capitellato-pilosum, externe ad apicem maculis paucis fulvis cingulatum. *Capsulæ* 2½ poll. longæ, 1½ lin. latæ, 6-costatæ.

37. JOSEPHIA, Wight.

1. **J. lanceolata,** Wight, Ic. t. 1742.—*Polystachya ramosa,* Gardn. MSS.—C.P. 2358.
HAB. Very abundant on trees in the Central Province.

Subsect. CRYPTOCHILIDÆ, *Lindl.*

38. ACANTHOPHIPPIUM, Blume.

1. **A. bicolor,** Lindl. in Bot. Reg. xx. t. 1730.—C.P. 2365.
HAB. Central Province, up to an elevation of 2000 feet.

Pseudobulbi ovati. *Folia* sæpius 3, 9–18 poll. longa, 2½–4½ poll. lata, utrinque acuta. *Scapus* brevis, 2–7-florus. *Bracteæ* ovato-lanceolatæ, pollicares. *Flores* sesquipollicares, flavi, ad apicem plus minus rubro-tincti maculatique. *Sepalorum* apices liberi obtusi, reflexi. *Petala* angustiora. *Labelli* lobi laterales rotundati, incurvi; intermedius linguæformis, carnosus, obtusus, deflexus; discus 3-lamellatus; lamellis exterioribus tuberculatis, intermedia tenui, utrinque mucronata.

Subsect. BRASSIDÆ, *Lindl.*

39. CYMBIDIUM, Swartz.

1. **C. ensifolium,** Swartz; Lindl. Gen. et Sp. Orch. p. 162, cum syn.—*C. hæmatodes,* Lindl. l. c.—C.P. 3694.
HAB. Hantani, in the Central Province.

The shape of the labellum of the Ceylon plant is so precisely similar to that of the variety of *C. ensifolium* figured in Bot. Reg. t. 1976, that I cannot doubt the plants being identical in species.

Digitized by Google

2. **C. bicolor,** Lindl. l.c. cum syn.—C.P. 3379.
HAB. Common on trees, up to an elevation of 3000 feet.

3. **C. aloifolium,** Swartz, (Lindl. l.c. cum syn.; Wight, Ic. tt. 1687, 1688).—C.P. 754.
HAB. Jaffna, *Gardner*.

Subsect. MAXILLARIDÆ, *Lindl.*

40. POLYSTACHYA Hook.

1. **P. luteola,** Hook. Exot. Fl. t. 103; Lindl. Gen. et Sp. Orch. p. 73, cum syn.; Wight, Ic. t. 1678.—C.P. 2360.
HAB. Not uncommon in the warmer parts of the island, on trees.

Subsect. CALANTHIDÆ, *Lindl.*

41. CALANTHE, R. Br.

1. **C. veratrifolia,** R. Br. (Lindl. Fol. Orchid. cum syn.)—C.P. 2367. Var. β. *discolor*.—C.P. 2371.
HAB. Not uncommon in the Central Province. Var. β. At an elevation of 6000 to 7000 feet.

2. **C. Masuca,** Lindl. Gen. et Sp. Orch. p. 249, cum syn; Fol. Orchid. cum syn.—*C. purpurea*, Lindl. l.c. *C. emarginata*, Wight, Ic. t. 918.—C.P. 2366.
HAB. Ambagamowa District, at an elevation of 2000 to 4000 feet.

Folia utrinque molliter pubescentia. *Bracteæ* lanceolatæ vel ovato-lanceolatæ. *Labelli* discus tuberculatus; lobi laterales oblongi, obliqui; calcar pedicello æquilongum.

42. GEODORUM, Jacks.

1. **G. dilatatum,** R. Br. (Lindl. Gen. et Sp. Orch. p. 175; Fol. Orchid. cum syn.; Wight, Ic. t. 912.)—C.P. 3196.
HAB. Central Province, amongst grass in shady places.

2. **G. fucatum,** Lindl. in Bot. Reg. t. 1687; Fol. Orch.
HAB. Ceylon, *Walker* (*Herb. Lindl.*).

I have never met with this species, nor is there a specimen or drawing of it in this collection.

Sect. 4. OPHREÆ, *Lindl.*

Subsect. SATYRIADÆ, *Lindl.*

43. SATYRIUM, Swartz.

1. **S. Nepalense,** D. Don (Lindl. in Linn. Soc. Proc. iii. p. 44, cum syn. seq.; Wight, Ic. t. 929).—*S. Perottetianum*, A. Rich.; Wight, Ic. t. 1716. *S. albiflorum*, A. Rich.; Wight, Ic. t. 1717. *S. pallidum*, A. Rich.—C.P. 227 (522).
HAB. Abundant about Newera Ellia.

Digitized by Google

Subsect. Gymnadenidæ, *Lindl.*

44. ATE, Lindl.

1. **A. virens,** Lindl. Gen. et Sp. Orch. p. 327; Wight, Ic. t. 928.—C.P. 3200.
Hab. Maturatte District, at an elevation of 4000 feet.

Petala oblata, obliqua, laciniis æqualibus.

2. **A. acuminata,** Thw.; *foliis* anguste lanceolatis *bracteisque* rotundato-ovatis, setaceo-acuminatis; *petalis* linearibus, obliquis lacinia anteriore longiore, anguste lineari; *labello* trifido, lobis linearibus, obtusis, lateralibus divergentibus, longioribus; *calcare* clavato, obtuso, ovario fere æquilongo.—C.P. 514.
Hab. Rambodde and above Galagama, at an elevation of 4000 to 5000 feet.

Caulis 1–3-pedalis, sparse foliosus. *Folia* 2–4 poll. longa. *Flores* secundi. *Sepala* rotundata *petala*que pallide viridia. *Labellum* glabrum, fulvum.
This bears a considerable general resemblance to *Habenaria Heyneana,* Lindl., but is totally distinct from it.

45. HABENARIA, Willd.

1. **H. macrostachya,** Lindl. Gen. et Sp. Orch. p. 307.—C.P. 3197.
Hab. Hantani, *Gardner.*

Sepala longiuscule acuminata. *Petala* fere ad basin divaricato-bifida.

2. **H. dichopetala,** Thw.; *foliis* ovatis vel ovato-lanceolatis, acutis; *sepalis lateralibus* ovatis, acutis, *dorsali* rotundato, concavo; *petalis* bipartitis, sinu lato, laciniis elongatis, setaceis, anteriore angustiore, parum longiore; *labello* tripartito, laciniis elongatis, setaceis, æqualibus; *calcare* cylindrico, parum clavato, subacuto, ovario æquilongo.—C.P. 3564.
Hab. Bintenne District, at no great elevation.

Caulis bipedalis, medio foliosus, dimidio inferiore squamatus. *Spica* pauciflora. *Sepala* circiter 3 lin. longa.

3. **H. dolichostachya,** Thw.; *foliis* ovatis, gradatim acuminatis, acutis, basi rotundatis; *spica* elongata; *bracteis* ovato-acuminatis, floribus æquilongis; *sepalis* lateralibus ovato-lanceolatis, acutis, dorsali parum breviore, rotundato, mucronato; *petalis* subæquilongis, falcatis, bifidis, lacinia anteriore nana; *labello* tripartito, laciniis linearibus angustissimis, *lateralibus* divergentibus, petalis æquilongis, *intermedia* parum longiore.—C.P. 3199.
Hab. Rambodde, *Gardner.*

Caulis 3-pedalis, medio foliosus, dimidio inferiore squamatus. *Folia* 2–3-poll. longa, superiora minora. *Spica* pedalis, laxiflora. *Sepala* circiter 3 lin. longa.

4. **H. viridiflora,** R. Br. (Lindl. Gen. et Sp. Orch. p. 319; Wight, Ic. t. 1705.)—C.P. 2372.
Hab. Common in the Central Province, at an elevation of 5000 to 7000 feet.

5. **H. pterocarpa,** Thw.; *foliis* lanceolatis; *floribus* majusculis; *sepalis* lateralibus deflexis, oblique lanceolatis, acutis, dorsali parum breviore, rotundato, subacuto, petala æquilonga, falcato-linearia, obtusa

Digitized by Google

includente; *labello* sepalis duplo longiore, tripartito, lobis linearibus, *lateralibus* acutis, parum longioribus, recurvis; *calcare* cylindrico, parum clavato, obtuso, quam ovarium 6-alatum fere triplo longiore.—C.P. 3201.

HAB. Rambodde, at an elevation of 4000 feet.

Caulis sesquipedalis, foliosus, *foliis* 2–6 poll. longis, superioribus gradatim minoribus. *Flores* albidi, *calcare* 3½ poll. longo, pallide viridi.

6. **H. latifolia,** Lindl. Gen. et Sp. Orch. p. 321.

HAB. Ceylon, *Macrae (Herb. Lindl.)*.

I have not met with this species, nor are there specimens of it in this herbarium.

7. **H. plantaginea,** Lindl. l. c. p. 323, cum syn.; Wight, Ic. t. 1710.—C.P. 2374.

HAB. Not uncommon in the hot drier parts of the island.

8. **H. crinifera,** Lindl. l. c.; Wight, Ic. t. 926.—C.P. 207.

HAB. Central Province, up to an elevation of 3000 feet.

46. PLATANTHERA, Rich.

1. **P. cubitalis,** Lindl. Gen. et Sp. Orch. p. 292?—*Habenaria cubitalis*, R. Br. Prod. *Orchis cubitalis*, Linn.; Willd. iv. p. 17; Fl. Zeyl. n. 320.—C.P. 3202.

HAB. Pasdun Corle, at no great elevation.

Petala ovato-oblonga, obtusa.

There can be little doubt, I think, of this being the *Orchis cubitalis*, Linn., with the description of which in 'Flora Zeylanica' it agrees very well; but Lindley's plant would appear to be probably different, since he describes the petals as subulate.

2. **P. rhynchocarpa,** Thw.; *caule* dimidio inferiore, folioso; *foliis* lanceolatis; *spica* brevi, compacta; *bracteis* lanceolatis, acutissimis, ovario subæquilongis; *sepalis lateralibus* ovatis, subacutis, deflexis, *dorsali* parum breviore, rotundato, cucullato, petala lineari-spathulata, acuta, subæquilonga includente; *labello* sepalis lateralibus æquilongo, a medio tripartito, laciniis lineari-lanceolatis, acutis, lateralibus parum brevioribus; *calcare* cylindrico, obtuso, porrecto, quam ovarium longiuscule rostratum dimidio longiore.—C.P. 3058.

HAB. Above Galagama, at an elevation of 4000 feet.

Caulis 1–2-pedalis. *Folia* 2–6 poll. longa. *Flores* albi, *sepalis* 3–4 lin. longis, *calcare* 13 lin. longo, apice viridi.

47. PERISTYLUS, Blume.

1. **P. goodyeroides,** Lindl. Gen. et Sp. Orch. p. 299.

HAB. Ceylon, *Walker (Herb. Hook.)*.

2. **P. plantagineus,** Lindl. l. c. p. 3000; Wight, Ic. t. 921.

HAB. Ceylon, *Macrae (Herb. Lindl.)*.

3. **P. spiralis,** Wight, Ic. t. 1696.—*P. Lawii*, Wight, Ic. t. 1695.—C.P. 226 (523).

HAB. Central Province, at an elevation of 4000 to 6000 feet.

4. **P. aristatus,** Lindl. l. c. p. 300.—*P. exilis*, Wight, Ic. t. 1698. *P. robustior*, Wight, Ic. t. 1699.—C.P. 3081, 2373.

HAB. More elevated parts of the Central Province, common.

Digitized by Google

5. **P. brevilobus**, Thw.; *caule* gracili, dimidio inferiore distanter folioso; *foliis* oblongo-lanceolatis, acutis; *spica* brevi, densiflora; *bracteis* ovato-lanceolatis, acutis, ovario subæquilongis; *sepalis petalis*que obtusis, his latioribus; *labello* obcordato, lobo intermedio minuto.—C.P. 3493.
HAB. Near Ratnapoora.

Subsect. CORYCIDÆ, *Lindl.*

48. DISPERIS, Swartz.

1. **D. tripetaloidea**, Lindl. Gen. et Sp. Orch. p. 371, cum syn.; Wight, Ic. t. 930.—C.P. 2363.
HAB. Not uncommon in damp forests of the Central Province, at an elevation of 3000 to 5000 feet.

Flores pallide purpurei.

Sect. 5. ARETHUSEÆ, *Lindl.*

Subsect. GASTRODIDÆ, *Lindl.*

49. GASTRODIA, R. Br.

1. **G. Javanica**, Lindl. Gen. et Sp. Orch. p. 385.—*Ephiphanes Javanica*, Blume, Bijdr. p. 421.—C.P. 3463.
HAB. Hinidoon Kanda, and Carawitta Kanda, near Ratnapoora.

This agrees so well with Blume's description, that I cannot doubt its being his plant.

50. EPIPOGIUM, Gmel.

Lindl. in Linn. Soc. Proc. i. p. 176.

Galera, Blume. *Podanthera*, Wight. *Ceratopsis*, Lindl.

1. **E. nutans**, Lindl. l. c. p. 177.—*Galera nutans*, Blume, Bijdr. p. 415. *Podanthera pallida*, Wight, Ic. t. 1759.—C.P. 3205.
HAB. Not very uncommon, in damp shady places, up to an elevation of 2000 feet.

Tota planta albida, vel floribus bracteisque rubro-maculatis.

Subsect. VANILLIDÆ, *Lindl.*

51. CYRTOSIA, Blume.

1. **C. Javanica**, Blume, Bijdr. p. 396; Rumphia, t. 69.—C.P. 3203.
HAB. Central Province, at the roots of Coffee-trees. Passbage, *Gardn.* Poondool Oya, *J. Nietner, Esq.*

52. VANILLA, Plumier.

1. **V. Walkeriæ**, Wight, Ic. t. 932.—An *V. aphylla*, Wight, Ic. t. 931? (non Blume).—C.P. 2964.

Digitized by Google

HAB. Galle and Negumbo.

Labellum fauce rubescens.

I have unfortunately been unable to make a careful analysis of the flower of this beautiful plant, the only flower I have seen, and from which the draftsman made his drawing, having been inadvertently thrown away.

2. **V. Moonii,** Thw.; *foliis* carnosis, oblongis, acuminatis, subsessilibus; *spicis* brevibus, plurifloris; *bracteis* brevibus, acutis; *sepalis petalis*que conformibus, lanceolatis, conniventibus; *labello* cucullato, margine crenulato.—*V. aromatica?*, Moon's Cat. p. 60.—C.P. 3204.

HAB. Cultura, *Moon.* Negumbo and Kornegalle.

*Sepala petala*que fulva, apice nigrescentia. *Labellum* pallide viride, disco albo, tribus seriebus apice convergentibus macularum fulvarum ornato. *Ovarium* albidum.

I have not seen the flowers of this plant in a fresh state. The description of their colour is taken from a drawing in this library.

Sect. 6. NEOTTEÆ, *Lindl.*

Subsect. CRANICHIDÆ, *Lindl.*

53. ZOSTEROSTYLIS, Blume.

1. **Z. Zeylanica,** Lindl. Gen. et Sp. Orch. p. 446.—*Z. Walkeræ,* Wight, Ic. t. 1748–4.—C.P. 383.

HAB. Not uncommon in shady forests of the Central Province, up to an elevation of 4000 feet.

Folia ovalia vel elliptica, subtrinervia, nitida, 3–7 poll. longa, longipetiolata. *Scapus* 1–3-pedalis. *Columna* brevissima, basi tuberculato-callosa. *Stigma* disciforme, emarginatum. *Clinandrium* latum, concavum, marginibus acutis nec membranaceis. *Anthera* disjunctim bilocularis. *Pollinia* basi attenuata curvataque; *glandula* communi parva, oblonga.

Subsect. SPIRANTHIDÆ, *Lindl.*

54. SPIRANTHES, L. C. Rich.

1. **S. australis,** Lindl. Linn. Soc. Proc. i. p. 178, cum syn.—*S. australis* et *densa,* Wight, Ic. t. 1724.—C.P. 550.

HAB. Common amongst grass, in the more elevated parts of the Central Province.

Subsect. PHYSURIDÆ, *Lindl.*

55. ZEUXINE, Lindl.

1. **Z. sulcata,** Lindl. Linn. Soc. Proc. i. p. 186, cum syn. seq.—*Z. emarginata,* Lindl. Gen. et Sp. Orch. p. 485. *Z. robusta,* Wight, Ic. t. 1726. *Z. brevifolia,* Wight, Ic. t. 1725.—C.P. 3017.

HAB. Amongst grass, in the warmer parts of the island.

Digitized by Google

56. MONOCHILUS, Wallich.

1. **M. longilabris,** Lindl. Linn. Soc. Proc. i. p. 186.—*M. affinis,* Wight, Ic. t. 1728.—C.P. 2377.
HAB. Hot drier parts of the island, not common.

2. **M. nervosus,** Wall. MSS. (Lindl. Gen. et Sp. Orch. p. 487.)
HAB. Ceylon, *Walker, Gardner (Herb. Hook.).*

3. **M. flavus,** Wall. MSS.; Lindl. l. c.—C.P. 3120.
HAB. Raxawa and Ambagamowa, in the Central Province, at an elevation of 3000 feet.

4. **M. regius,** Lindl. l. c.—C.P. 2643.
HAB. Damp forests, in the Central Province, up to an elevation of 4000 feet. Nom. vulg. "Eeree-rajah."

57. CHEIROSTYLIS, Blume.

1. **C. parvifolia,** Lindl. Gen. et Sp. Orch. p. 488; Linn. Soc. Proc. i. p. 187.—C.P. 3071.
HAB. Ambagamowa District, rare.

2. **C. flabellata,** Wight, Ic. t. 1727; Lindl. l. c. cum syn. seq.—*Goodyera flabellata,* A. Rich.; Ann. des Sci. Nat. ser. 2, xv. p. 79, t. 12. *Zeuxine moniliformis,* Griff. Notulæ, iii. p. 397, t. 350.—C.P. 3377.
HAB. Ambagamowa District, rare.

Closely allied to the preceding: can it be merely a more highly developed form of it?

58. RHAMPHIDIA, Lindl.

Linn. Soc. Prod. i. p. 190.

1. **R. elongata,** Lindl.—*Goodyera* (sect. *Rhamphidia*) *elongata,* Lindl. Gen. et Sp. Orch. p. 494.—C.P. 2739.
HAB. Hewahette and Ambagamowa Districts, at an elevation of 4000 feet.

2. **R. Gardneri,** Thw.; subcaulescens; *foliis* oblongis, utrinque angustatis, glabris, scapo tomentello brevioribus; *spica* elongata, tenui, pluriflora; *bracteis* anguste lanceolatis, ovario subæquilongis; *sepalis petalis*que ovatis, obtusiusculis; *labello* parum breviore, sacciformi, ovoideo, acuto, dimidio apicali clauso, interne parcissime brevi-piloso; *columna* labelli aperturæ apposita, subquadrata, apice spinis 2 uncinatis auriculata; *rostello* profunde bifido; *anthera* dorsali.—C.P. 3425.
HAB. Central Province, *Gardner.*

Bipedalis. *Folia* 3–5 poll. longa, 3-nervia, subtus purpurascentia. *Sepala petala*que rufo-fuscescentia, 2 lin. longa. *Labellum* flavum.

59. GOODYERA, R. Br.

1. **G. procera,** Hook. Exot. Flor. t. 39; Lindl. Gen. et Sp. Orch. p. 493, cum syn.; Wight, Ic. t. 1729.—C.P. 597.
HAB. Common in damp forests, up to an elevation of 4000 feet.

Digitized by Google

2. **G. fumata,** Thw.; subcaulescens, *foliis* majusculis, oblongis, utrinque angustatis, glabris, scapo brevioribus; *spica* sparsiflora, elongata; *rachi* glanduloso-pilosa; *bracteis* lanceolatis, acutis, floribus subæquilongis; *sepalis* oblongis, acutis; *labello* concavo, abrupte in ligulam æquilongam arcte revolutam angustato.—C.P. 3668.
HAB. Central Province, rare.

Folia 5–10 poll. longa, concolora. *Rachis* rufo-fusca. *Bracteæ* rufæ. *Flores* viridi-rufescentes. *Labellum* albidum, fulvo-tinctum. *Stigma* obcordatum, rostratum, apice emarginatum.

60. GEORCHIS, Lindl.

1. **G. cordata,** Lindl. Gen. et Sp. Orch. p. 496.
HAB. Ceylon, *Macrae (Herb. Lindl.)*.

I have not met with this species nor are there specimens of it in this herbarium.

61. ANŒCTOCHILUS, Blume.

1. **A. setaceus,** Blume, (Lindl. Gen. et Sp. Orch. p. 499; Wight, Ic. t. 1731.)—C.P. 384.
HAB. Damp forests, up to an elevation of 3000 feet. Nom. vulg. "Wanna-rajah."

62. PHYSURUS, L. C. Rich.

1. **P. Blumei,** Lindl. Gen. et Sp. Orch. p. 504; Linn. Soc. Proc. i. p. 181.—C.P. 598.
HAB. Not uncommon in the damp forests of the Central Province.

63. TROPIDIA, Lindl.

1. **T. curculigoides,** Lindl. Gen. et Sp. Orch. p. 497.—C.P. 3565.
HAB. Amongst high grass, in the hot, drier parts of the island.

64. CNEMIDIA, Lindl.

Govindovia, Wight.

1. **C. bambusifolia,** Thw.; *foliis* oblongo-lanceolatis, acuminatis, basi acutis; *ramis florigeris* brevibus, squamosis, rarius subfoliosis; *spicis* brevissimis, confertifloris; *bracteis* lanceolatis, acutissimis.—C.P. 3207.
HAB. Saffragam District.

Caulis 2–3-pedalis. *Folia* 4–9 poll. longa.

This would appear to be quite distinct from either of Lindley's species of this genus, as well as from the *Govindovia nervosa*, Wight, Ic. t. 2090, which latter has the leaves rounded at the base, and the spikes of flowers longer and less crowded.

65. CORYMBIS, Thouars.

1. **C. disticha,** Thouars, (Lindl. Fol. Orchid. cum syn.)—C.P. 3206.
HAB. Matturatte, *Moon*.

Digitized by Google

CXLV. APOSTASIACEÆ.

1. APOSTASIA, Blume.

1. **A. Wallichii,** R. Br. in Wall. Pl. Asiat. Rar. i. p. 75, t. 84.—C.P. 2744.

HAB. Banks of streams, in the Saffragam District, at no great elevation.

CLXVI. ZINGIBERACEÆ.

1. GLOBBA, Schieb.

1. **G. bulbifera,** Roxb. Fl. Ind. i. p. 78.—*G. marantinoides*, Wight, Ic. t. 2001 (*G. marantina*, Wight, non Willd.).—C.P. 3563.
HAB. Near Batticaloa.

My specimens agree extremely well with Dr. Wight's figure, except that in mine the superior wing-like appendages of the anther are twice as broad as the inferior ones. The flowers are of an orange-yellow colour.

2. ZINGIBER, Gærtn.

(Nom. vulg. "Wal-ingooroo.")

1. **Z. Zerumbet,** Rosc. (Roxb. Fl. Ind. i. p. 48, cum syn.; Wight, Ic. t. 2003.)—C.P. 3699.
HAB. Not uncommon up to an elevation of 2000 feet.

2. **Z. Cassumunar,** Roxb. l. c. p. 49.—Var. *subglabra*.—C.P. 3727.
HAB. Hantani, in the Central Province, rare.

This differs from the typical form of the species in being nearly smooth and in having smaller spikes of flowers.

3. **Z. Wightianum,** Thw.—*Z. squarrosum*, Roxb.?; Wight, Ic. t. 2004 (vix Roxb.).—C.P. 2286.
HAB. Very common in forests, up to an elevation of 4000 feet.

1½–5-pedale. *Folia* 6–12 poll. longa, membranacea, superne subglabra, subtus villosula, vagina ad apicem tuberculis minutis conspersa, ligulæ bifidæ lobis 1½–3 lin. longis, rotundatis. *Flores* ochracei. *Corollæ laciniæ exteriores* acuminato-lanceolatæ. *Labellum* brevius, purpureo-venosum maculatumque, 3-lobum, lobis lateralibus lanceolatis, acutis, intermedio majore, ovato, obtuso, bifido. *Capsulæ* pollicares.

In the present species the sheaths of the leaves have not the large conical processes at their apex, and the fruit is very much smaller than that of Roxburgh's *Z. squarrosum*, as described by him.

4. **Z. cylindricum,** Moon, Cat. p. 1.—*foliis* lanceolatis vel lineari-lanceolatis, utrinque acutis, subsessilibus, ad costam subtus aliquando pilosis; *vaginis* ad apicem tubulosis nec fissis; *ligula* brevi, truncata, externe pilosa; *spicis* radicalibus, pedunculatis, subcylindricis; *bracteis* imbricatis, rotundatis vel oblongis, subacutis; *labello* 3-lobo, lobis linearibus, truncatis, intermedio latiore.—C.P. 2287.
HAB. Very abundant in the forests of the Central Province.

3–6-pedale vel ultra. *Folia* 5–8 poll. longa, 1–2 poll. lata. *Pedunculi* 3–9

Digitized by Google

poll. longi, erecti, squamis pollicaribus obtusis ad medium tubulosis vaginati. *Bracteæ* pollicares, rufescentes vel pallidæ. *Flores* albidi. *Capsulæ* subsphæricæ, rubræ. *Semina* nigra, arillo albo.

This bears a very great external resemblance to *Z. officinale*, which is largely cultivated in native gardens; but, besides other differences, the tubular uncleft sheaths of the leaves at once distinguish the present plant.

3. CURCUMA, Linn.

1. **C. Zerumbet,** Roxb. Pl. Cor. iii. t. 201; Fl. Ind. i. p. 20, cum syn. —C.P. 3373.

HAB. Common in the Ambagamowa District. Nom. vulg. "Harankaha."

2. **C. aromatica,** Salisb. (Wight, Ic. t. 2005.)—*C. zedoaria*, Roxb. Fl. Ind. i. p. 23 (excl. syn.).—C.P. 3705.

HAB. Pusalawa and near Gampolle, in the Central Province. Nom. vulg. "Dada-kaha," "Wal-kaha."

The roots of this plant are used medicinally by the Cinghalese.

3. **C. albiflora,** Thw.; glabra, *foliis* ellipticis vel oblongis, utrinque acutis, petiolatis, concoloribus; *spica* radicali, pedunculo æquilonga; *bracteis* ovato-lanceolatis, parum reflexis, superioribus gradatim minoribus, omnibus florigeris; *perianthii* laciniis obtusis; *labello* rotundato, retuso.—C.P. 2737.

HAB. Maskellia, in the Ambagamowa District, at no great elevation.

Folia 6–8 poll. longa, 2½–3½ poll. lata. *Bracteæ* pallide virides. *Flores* albi, labelli disco luteo. *Antheræ* calcaria incurvata.

Mr. W. O. Brodie sent me some years ago, from Anooradhapoora, a very small species of *Curcuma* (C.P. 3700), which appears to be undescribed, and the specimens are not sufficiently perfect to enable me to draw up a description.

Curcuma longa, Linn. (nom. vulg. "Kaha"), is cultivated in native gardens, and the roots are used in curries, as well as for medicine.

4. KÆMPFERIA, Linn.

1. **K. rotunda,** Linn. (Roxb. Fl. Ind. i. p. 16, cum syn.; Wight, Ic. t. 2029.)—C.P. 3175.

HAB. Warmer parts of the island. Nom. vulg. "Lonkenda."

The roots are employed medicinally by the Cinghalese.

2. **K. pandurata,** Roxb. l. c. p. 18, cum syn.—C.P. 3702.

HAB. Gangaroowa, near Peradenia. Nom. vulg. "Amba-kaha."

The Cinghalese use the roots of this medicinally. *K. Galanga*, Linn., is cultivated in native gardens as a medicine and a masticatory; but I have not heard of its occurring in a wild state in the island. Its native name is "Hingooroo-peyellee."

5. AMOMUM, Linn.

(Nom. vulg. "Neya-dandoo.")

Sect. 1.—*Floribus dense glomeratis.*

1. **A. echinatum,** Willd. Sp. Plant. i. p. 8, cum syn.—C.P. 3020.

HAB. Common in dense forests of the Central Province, up to an elevation of 4000 feet.

Digitized by Google

6–12-pedale. *Folia* firma, glabra, lineari-lanceolata, acuminata, sessilia, superne nigro-viridia, subtus pallidiora, 1–2-pedalia; *ligula* truncata vel parum rotundata, indivisa, 5–7 lin. longa. *Pedunculi* procumbentes, rubri, squamis obtusis muniti. *Capitulum* rotundatum vel ovoideum. *Bracteæ* oblongæ, obtusæ, pilosulæ, quam flores parum breviores. *Flores* flavi, rubro-tincti. *Labellum* parum carnosum, cucullatum, obscure trilobum, basi utrinque bidentatum, disco rubro-lineato maculatoque, lobo intermedio rotundato, aurantiaco. *Antheræ loculi* ciliati; *crista* transversim oblonga, breve triloba. *Capsulæ* rotundatæ, nitidæ, uncinato-aculeatæ, nigro-purpureæ, pollicares.

2. **A. fulviceps,** Thw.; *foliis* firmis, lanceolatis vel lineari-lanceolatis, utrinque acutis, acuminatis, sessilibus; *ligula* indivisa, rotundata, tam longa quam lata; *pedunculis* brevibus, procumbentibus; *capitulo* rotundato vel ovoideo, plurifloro; *bracteis* imbricatis, ovato-oblongis, retusis, adpressim dense fulvo-pilosis.—*a.* *foliis* glabris.—C.P. 3122. *β.* *foliis* subtus pilosis.—C.P. 3704.

HAB. Dense forests. Var. *a.* Raxawa in the Central Province. Var. *β.* Reigam Corle.

5–8-pedale vel ultra. *Folia* 1–2-pedalia. *Flores* pallide flavi, rubro-tincti. *Corollæ* laciniæ exteriores oblongæ, obtusæ, externe dense pilosæ, posterior subduplo latior. *Labellum* rotundatum, retusum, trilobum, basi bidentatum, dentibus longiusculis. *Antheræ loculi* pilosi, *crista* semilunaris, emarginata.

3. **A. pterocarpum,** Thw.; glabrum, *foliis* oblongo-lanceolatis, utrinque acutis acuminatis, sessilibus; *ligulæ* bifidæ lobis longis, lanceolatis, acutis, scariosis; *pedunculis* brevibus, procumbentibus; *capitulo* ovoideo vel globoso; *bracteis* oblongis, majusculis, cito deciduis; *capsulis* confertis, ovoideis, parum acutis, 9-costatis, costis alatis crenulatisque.—C.P. 3021.

HAB. Forests of the Central Province, up to an elevation of 4000 feet.

3–6-pedale vel ultra. *Folia* 1–2-pedalia. *Flores* albi. *Corollæ* laciniæ exteriores oblongæ, obtusæ, posterior latior. *Labellum* rotundatum, basi breve bidentatum, disco flavo, rubro-tincto. *Antheræ* crista brevis, triloba. *Capsulæ* sesquipollicares, virides.

4. **A. masticatorium,** Thw.; *foliis* firmis, glabris, lineari-lanceolatis; acuminatis, sessilibus, basi acutis vel parum rotundatis; *ligula* longiuscula, indivisa, lanceolata, superne scariosa; *pedunculis* procumbentibus; *capitulo* globoso; *bracteis* obovatis, obtusis, pilosulis, ciliatis, quam flores dimidio brevioribus; *capsulis* retundatis, echinatis.—C.P. 3701.

HAB. Common in forests of the Central Province, up to an elevation of 4000 feet.

2–8-pedale. *Folia* 5–15 poll. longa. *Bractæ* 8 lin. longæ. *Flores* flavi. *Corollæ* tubus externe villosulus, laciniæ exteriores oblongæ, obtusæ, posterior duplo latior. *Labellum* rotundatum, rubro-punctulatum, basi bidentatum, trilobum, lobo intermedio minore, bifido. *Anthera* glabra, loculis longiusculis, ad apicem valde divergentibus, crista semilunaria. *Capsulæ* 8 lin. in diam. nigro-virides.

The Cinghalese chew the aromatic rhizomes of this plant with their betel.

5. **A. acuminatum,** Thw.; *foliis* firmis, glabris, oblongo-lanceolatis, longiuscule acuminatis, basi parce acutis, petiolatis; *ligula* indivisa, rotundata, parum breviore quam lata; *pedunculis* procumbentibus; *capitulo* subgloboso, parvo; *bracteis* rotundatis vel obovatis, obtusis, puberulis, ciliatis, quam flores dimidio brevioribus; *labello* rotundato, trilobo, lobo intermedio emarginato; *antheræ* loculis ciliatis, crista semilunari crenulata.—C.P. 3466.

Digitized by Google

HAB. Ehualagodde, near Ratnapoora, at no great elevation.

2–4-pedale. *Folia* (in meis specim.) circiter 6 poll. longa, 1–1½ poll. lata, petiolo 4 lin. longo. *Rhizomata* repentia, cum *pedunculis* brevibus, *squamis* rotundatis *bracteis*que rufescentia. *Flores* lutei, rubro-tincti.

Sect. 2.—*Floribus laxe spicatis vel paucis.*

6. **A. pulchellum,** Thw.; *foliis* oblongis, utrinque acutis, membranaceis, minute reticulatis, præter costam subtus pilosam glabris, petiolatis; *ligulæ* bifidæ lobis brevibus, rotundatis; *pedunculis* elongatis, procumbentibus, ramosis, squamis oblongis obtusis subglabris amplectentibus tectis; *floribus* quam bracteæ multo longioribus; *antheræ* crista majuscula, semicirculari; *capsulis* rotundatis, leviter 9-costatis. —C.P. 2736.

HAB. Forests of the Central Province, up to an elevation of 3000 feet.

1–2-pedale. *Folia* ½–2 ped. longa, 2½–5 poll. lata, *petiolo* ½–8 poll. longo. *Corollæ* laciniæ exteriores puberulæ, inter se subæquales, lineares, obtusæ, pallidæ, venis 3 fulvis. *Labellum* rotundatum, roseo-purpureum, disco flavo, 3-lobum, lobo intermedio retuso. *Antheræ loculi* glabri, ad apicem vix divergentes, *crista* roseopurpurea. *Capsulæ* 6 lin. in diam., rubræ.

7. **A. hypoleucum,** Thw.; *foliis* oblongo-lanceolatis, utrinque acutis, acuminatis, superne glabris nitidis, subtus adpresse canescenti-pilosis, petiolatis; *ligula* brevi, obtusa, apice biloba; *scapis* secus rhizoma repens elongatum sparsis, brevibus, 3-floris; *capsulis* rotundatis, 9-costatis.—C.P. 3532.

HAB. Damp forests of the Central Province, up to an elevation of 4000 feet.

2–5-pedale. *Folia* ½–2-pedalia, petiolo 1–3 poll. longo. *Bracteæ* ovatæ, retusæ, mucronulatæ, pallidæ, glabræ, floribus multo breviores. *Corollæ* laciniæ exteriores albidæ, inter se subæquales, oblongæ, obtusæ, sæpe mucronatæ. *Labellum* rotundatum, retusum, disco flavo rubro-tincto. *Antheræ* loculi glabri, ad apicem vix divergentes, crista semilunari. *Capsulæ* rubræ, pollicares.

6. ELETTARIA, Rheede.

Sect. 1.—*Spicis laxifloris.*

1. **E. Cardamomum,** White, (Blume, Enum. i. p. 51; Miq. Flor. Ind. Bat. iii. p. 600, cum syn.)

Var. β; *foliis* parum latioribus firmioribusque; *capsulis* fusiformibus.—*E. major*, Smith.—An *Elettari*, Rheed. Hort. Mal. xi. t. 6?—C.P. 2431.

HAB. Var. β. Forests in the Central and Southern Provinces, up to an elevation of 3000 feet. Nom. vulg. "Ensal." Var. α occurs in Ceylon only as a cultivated plant; it is called by the Cinghalese Rata-ensal.

☞ A careful comparison of growing specimens satisfies me that the plants producing respectively the round and the long cardamoms of commerce are not distinct species, but merely varieties of the present species. In every essential particular the structure is similar in the two plants, the only difference being that var. α, which produces the round cardamom, is a little taller, with rather narrower and less firm leaves, and that its fruit is more aromatic as well as different in form from that of var. β. The seeds of both varieties are used by the Cinghalese to chew with their betel, and as medicines.

Digitized by Google

Sect. 2.—*Floribus dense glomeratis.*

Geanthus, Rot.

2. **E. involucrata,** Thw.; *foliis* majusculis, membranaceis, glabris, lineari-lanceolatis, utrinque acutis, acuminatis, sessilibus; *ligula* brevi, indivisa, rotundata; *pedunculis* erectis, longiusculis, squamosis; *capitulo* multifloro, ultra apicem truncatum explanatum squamis magnis involucrato.—C.P. 3019.
HAB. Central Province, in damp forests, at an elevation of 4000 to 6000 feet.

6–10-pedalis vel ultra. *Folia* 1½–3 ped. longa, 4–7 poll. lata. *Pedunculi* 1½–3 ped. alti, cum squamis oblongis vel ovato-oblongis obtusis 3–6 poll. longis bracteisque obovatis, rubri. *Flores* parvi, pallide ochracei. *Corollæ* laciniæ exteriores obovato-oblongæ, obtusæ. *Labellum* obovatum, 3-lobum, lobis subæqualibus rotundatis.

3. **E. floribunda,** Thw.; *foliis* glabris, firmis, lineari-lanceolatis, utrinque acutis, acuminatis, petiolatis; *ligula* brevi, indivisa, rotundata; *pedunculis* erectis, longiusculis, squamosis; *capitulo* multifloro, globoso; *bracteis* rotundatis vel ovato-rotundatis, retusis, mucronatis; *floribus* parvis, parum carnosis; *corollæ* laciniis exterioribus ovatis, obtusis, concavis; *labello* obovato, retuso, obscure trilobo.—C.P. 3374.
HAB. Forests in the Ambagamowa District.

3–6-pedalis vel ultra. *Folia* 1½–2 ped. longa, circiter 3 poll. lata. *Flores* pallide ochracei.

4. **E. nemoralis,** Thw.; *foliis* glabris, firmis, lanceolatis vel lineari-lanceolatis, utrinque acutis, acuminatis, brevi-petiolatis; *ligula* brevi, indivisa, rotundata; *pedunculis* procumbentibus, squamosis; *capitulo* parvo, subgloboso; *bracteis* glabris, valde membranaceis, exterioribus rotundatis vel obovatis, interioribus lanceolatis; *corollæ* laciniis exterioribus æqualibus, oblongis, obtusis, tubo longo; *labello* rotundato, 3-lobo, lobo intermedio minore, bifido; *ovario* piloso.—C.P. 3703.
HAB. Forests in the Reigam and Pasdoon Corles.

2–4-pedalis. *Folia* 8–15 poll. longa, circiter 2 poll. lata. *Flores* flavi, labello copiose purpureo-venoso. *Capsulæ* rotundatæ, breve rostratæ, semipollicares.

7. HEDYCHIUM, Kœnig.

1. **H. coronarium,** Kœn. (Wallich in Hook. Journ. of Bot. iii. (1853) p. 325, cum syn; Wight, Ic. t. 2010.)—C.P. 3018.
Var. β; *floribus* lutescentibus.—Wall. l. c.; Wight, Ic. tt. 2008, 2009.—C.P. 3728.
HAB. Margins of woods, in the Central Province, up to an elevation of 6000 feet. Nom. vulg. "Ella-wal."

2. **H. angustifolium,** Roxb. Flor. Ind. i. p. 13; Wall. l. c. p. 371. —C.P. 3669.
HAB. In similar situations with the preceding.

8. ALPINIA, Linn.

1. **A. Galanga,** Linn. (Roxb. Fl. Ind. i. p. 59, cum syn.)—C.P. 3729.
HAB. Cultura, *Moon*. Nom. vulg. "Koloowala."

The Cinghalese employ the rhizomes medicinally.

Digitized by Google

2. **A. Allughas,** Roscoe, (Roxb. l. c. p. 61, cum syn.—C.P. 3157.)
Hab. Warmer parts of the island. Nom. vulg. "Aloo-gass."

The rhizomes of this species are also used medicinally by the Cinghalese.

3. **A. nutans,** Roscoe, (Roxb. l. c. p. 65, cum syn; Wight, Ic. t. 2027.)
Var. β; *panicula* breviore; *floribus* minoribus.—*A. sericea,* Moon, Cat. p. 1.—C.P. 3312.
Hab. In a forest between Negombo and Kornegalle. Nom. vulg. "Rankeeriya."

Besides the distinguishing characters mentioned above, this differs from the common form of *A. nutans* in the flowers not being tipped with rose-colour.

4. **A. calcarata,** Roscoe, Roxb. l. c. p. 69; Wight, Ic. t. 2028.)—C.P. 3730.
Hab. Kandy, *Moon, Walker.* Nom. vulg. "Kattakeeriya."

I have never met with this truly wild. It grows abundantly in the Botanic Garden.

9. COSTUS, Linn.

1. **C. speciosus,** Smith, (Roxb. Fl. Ind. i. p. 58, cum syn.; Wight, Ic. t. 2014.)—C.P. 3082.
Hab. Margins of woods, in the Ambagamowa District. Nom. vulg. "Taiboo-gass."

The Cinghalese use the rhizomes as a medicine.

CXLVII. MARANTACEÆ.

1. MARANTA, Plum.

1. **M. virgata,** Dietr. (Steud. Nom.; Wight, Ic. t. 2015.)—*Phrynium virgatum,* Roxb. Fl. Ind. ed. Carey, i. p. 4.—C.P. 3465.
Hab. Hotter parts of the island, not very uncommon. Nom. vulg. "Hoolankeeriya."

The Rev. S. O. Glenie, of Trincomalee, informs me that arrowroot of a very superior quality is obtainable from the rhizomes of this plant.

2. **M. spicata.**—*M. cæspitosa,* Dietr.; Steud. Nom. *Phrynium spicatum,* Roxb. l. c. p. 5.—C.P. 612.
Hab. Forests in the Central Province; rather rare.

This, after a careful analysis of the flower, appears to me to be a true species of *Maranta.*

2. PHRYNIUM, Willd.

1. **P. capitatum,** Linn. (Roxb. Fl. Ind. i. p. 8, cum syn.; Wight, Ic. t. 2016.)—C.P. 3123.
Hab. Forests of the Central Province. Nom. vulg. "Atbamikeeriya."

3. CANNA, Linn.

1. **C. Indica,** Linn. (Roxb. Fl. Ind. i. p. 1, cum syn.)—C.P. 3706.
Hab. Very abundant, both the red- and yellow-flowered varieties. Nom. vulg. "Bootsarana."

Digitized by Google

CXLVIII. MUSACEÆ.

1. MUSA, Schreb.

1. **M. sapientum,** Linn. (Willd. Sp. Pl. iv. p. 894; Roxb. Fl. Ind. i. p. 663, cum syn.)—C.P. 3731.

HAB. Rocky woods in the Central Province, common. Nom. vulg. "Wal-kaihel-gass."

There cannot be a doubt that this is the species from which have originated the numerous varieties of sweet Plantains cultivated here.

CXLIX. PONTEDERACEÆ.

1. MONOCHORIA, Presl.

(Nom. vulg. "Deya-habarella.")

1. **M. hastæfolia,** Presl, (Kunth, Enum. iv. p. 133, cum syn.)—*Pontederia hastata,* Linn.; Roxb. Fl. Ind. ii. p. 121.—C.P. 3213.

HAB. Common in swampy places in the hotter parts of the island.

This and the following species are used medicinally by the Cinghalese.

2. **M. vaginalis,** Presl, (Kunth, l. c. p. 134, cum syn.)—*Pontederia vaginalis,* Burm.; Roxb. Cor. Pl. ii. p. 110; Fl. Ind. l. c.—C.P. 2315.

HAB. Equally common with the preceding, and in similar places.

3. **M. plantaginea,** Kunth, l. c. p. 135.—*Pontederia plantaginea,* Roxb. Fl. Ind. ii. p. 123.—C.P. 3686.

HAB. Hotter parts of the island; less common than the two preceding species.

CL. COMMELYNACEÆ.

1. COMMELYNA, Dill.

Sect. 1.—*Spatha complicata.*

1. **C. salicifolia,** Roxb. Fl. Ind. i. p. 172; Kth. Enum. iv. 39, cum syn.—An *C. communis,* Linn. forma?—C.P. 2979, 3358.

Var. *β*; *angustata; foliis* longis, linearibus; *spathis* longe pedunculatis, subfalcatis, valde acuminatis.—C.P. 3215.

HAB. Very abundant. Var. *β*. Doombera District. Nom. vulg. "Girrapata."

Var. *β*, though differing a good deal in general appearance from the present plant as it ordinarily occurs, is notwithstanding, I suspect, merely an extreme form of it.

I do not remember having met with the typical *C. communis,* L., which has the smaller petal very narrow, whilst in the present plant I find the smaller petal varying from wide-cordate to oval.

Sect. 2.—*Spatha turbinato-cucullata.*

2. **C. Benghalensis,** Linn. (Kth. l. c. p. 50, cum syn.; Wight, Ic. t. 2065.)—C.P. 2314.

Digitized by Google

HAB. Very common in the warmer parts of the island. Nom. vulg. "Deya-mainaireya."

Used as a medicine by the Cinghalese.

3. **C. obliqua,** Don, (Prod. Fl. Nep. p. 45; an Vahl, Enum. ii. p. 173?) —*C. Donii,* Dietr.; Kth. l. c. p. 58. *C. paludosa,* Blume, Enum. i. p. 2; Kth. l. c. p. 51; Miquel, Fl. Ind. Bat. iii. p. 533.—C.P. 2326.
HAB. North of Kandy, not very uncommon.

4. **C. longifolia,** Lam. (Vahl, Enum. ii. p. 165?)—C.P. 3224.
HAB. Hot drier parts of the island.

Subglabra vel plus minus pilosa. *Folia* anguste lanceolata, valde acuminata, parce obliqua, 2–6 poll. longa, ½–1 poll. lata, vagina ad oram pilis rigidulis albis ciliata. *Spathæ* 1–3-næ, parum falcatæ acuminatæque, externe pilosæ, singulæ pedunculum solitarium 3-florum includentes.

Nearly allied to the preceding species, from which it differs in its smaller size, and in its narrower, more acuminated, and less oblique leaves. It might perhaps be safe to consider it a variety only.

2. ANEILEMA, R. Br.

(Nom. vulg. "Tanna-patā.")

1. **A. ensifolium,** Wight, Ic. t. 2074.—*A. secunda,* Wight, Ic. t. 2075–1.—C.P. 2324.
HAB. Not uncommon in the south of the island.

2. **A. scapiflorum,** Wight, Ic. t. 2073.
Var. β; *minus; foliis* multo minoribus; *bracteis* parum brevioribus latioribusque.—C.P. 3314.
HAB. Ceylon; *Mrs. Walker, in Herb. Hook.* Var. β; Oova District, at an elevation of 5000 feet.

Var. β may possibly prove to be a distinct species, but, without better materials than I at present possess, it is not in my power to determine satisfactorily. It appears to agree in many essential particulars with specimens of *A. scapiflorum*, from Khasia, collected by Drs. Hooker and Thomson.

3. **A. protensum,** Wall. Cat. No. 5218.—*Dictyospermum protensum,* Wight, Ic. t. 2071.—C.P. 3026.
HAB. Kokool-Corle.

4. **A. montanum,** Wight, in Wall. Cat.—*Dictyospermum montanum,* Wight, Ic. t. 2069.—C.P. 2325.
HAB. Not uncommon up to an elevation of 3000 feet.

5. **A. vaginatum,** R. Br. (Kth. Enum. p. 67, cum syn.; Wight, Ic. t. 2076–1.)—C.P. 2328.
HAB. Common in the hotter parts of the island.

6. **A. nanum,** Kth. Enum. iv. p. 65, cum syn.; Wight, Ic. t. 2077–2. —*Commelyna nana,* Roxb. Fl. Ind. i. p. 173.—C.P. 2329.
HAB. Very abundant in damp pastures.

7. **A. nudiflorum,** R. Br. (Kth. l. c. p. 66, cum syn.; Miquel, Fl. Ind. Bat. iii. p. 537.)—C.P. 3027, 3313.
HAB. Common in the warmer parts of the island.

8. **A. dimorphum,** Dalz. in Hook. Journ. of Bot. iii. (1851) p. 138;

Digitized by Google

Bombay Flor. p. 254.—*A. paniculatum,* Wight, Ic. t. 2075-2.—C.P. 3025.

HAB. Common in the Central Province.

Bracteæ minutæ, rotundatæ, concavæ, apice incrassatæ, coloratæ, incurvæ. *Folia* glabra vel pilosula.

3. FLOSCOPA, Lour.

Dithyrocarpus, Kunth.

1. **F. paniculata,** Hassk. (Miq. Fl. Ind. Bat. iii. p. 542; Benth. Fl. Hongk. p. 377, cum syn.—*Dithyrocarpus petiolatus, D. Rothii,* et *D. undulatus,* Wight, Ic. tt. 2079, 2080.)—C.P. 553.

HAB. Very common up to an elevation of 4000 feet.

4. POLLIA, Thunb.

Aclisia, E. Meyer.

1. **P. Indica.**—*Aclisia Indica,* Wight, Ic. t. 2068.—C.P. 2327.

HAB. Not uncommon in the warmer parts of the island.

5. CYANOTIS, Don.

(Nom. vulg. "Goloo-bailoo.")

1. **C. axillaris,** R. et Sch. (Kth. Enum. iv. p. 105, cum syn.)—C.P. 2330.

HAB. Hotter parts of the island.

2. **C. cristata,** R. et Sch. (Kth. l. c. p. 102, cum syn.; Wight, Ic. t. 2082.)—C.P. 3217.

HAB. Common up to an elevation of 3000 feet.

3. **C. pilosa,** R. et Sch. (Kth. l. c. p. 105; Wight, Ic. t. 2083.)—C.P. 2331.

HAB. Newera Ellia and other elevated parts of the island.

4. **C. fasciculata,** R. et Sch. (Kth. l. c. p. 104, cum syn.; Wight, Ic. t. 2086-2.)—C.P. 2433 (2978).

HAB. Very abundant in the Central Province.

5. **C. lanceolata,** Wight, Ic. t. 2085.—C.P. 2332, 3223. Var. *subglabra.*—C.P. 3216.

HAB. Central Province, up to an elevation of 6000 feet.

Closely allied to the preceding species, but distinguished by its much larger size and by the different character of the pubescence, which is silky in this, but lanose in *C. fasciculata.*

CLI. HYPOXIDACEÆ.

1. HYPOXIS, Linn.

1. **H. trichocarpa,** Wight, Ic. t. 2045.—*H. latifolia, H. leptostachya, H. pauciflora,* et *H. brachystachya,* Wight, Ic. tt. 2044, 2045, 2046.—C.P. 2288. Var. *linearifolia.*—C.P. 2290.

Digitized by Google

Hab. Central Province, up to an elevation of 5000 feet. Nom. vulg. "Mā-bintal."

A rather variable plant as regards the size and shape of the leaves and the amount of pubescence.

2. CURCULIGO, Gærtn.

1. **C. recurvata,** Dryand. (Roxb. Fl. Ind. ii. p. 145.)—c.p. 3210.

Hab. Saffragam, *Moon*.

I have never met with this plant in a wild state.

2. **C. orchioides,** Gærtn. (Roxb. Fl. Ind. ii. p. 144, cum syn.)—*C. brevifolia,* Ait.; Wight, Ic. t. 2043.—c.p. 2289.

Hab. Not uncommon in grassy places, up to an elevation of 3000 feet. Nom. vulg. "Heen-bintal."

Extremely variable in the amount of pubescence, in the shape and size of the leaves, and in the number of flowers; and I cannot help suspecting that *C. Malabarica,* Wight, will prove to be a form of it, and perhaps also *C. graminifolia,* Nimmo, of the Bombay Flora.

CLII. AMARYLLIDACEÆ.

1. CRINUM, Linn.

1. **C. Asiaticum,** Linn. (Kth. Enum. v. p. 547, cum syn.)—*C. toxicarium,* Roxb. Fl. Ind. ii. p. 134.—c.p. 2969.

Hab. Very abundant on the sea-coast of the island. Nom. vulg. "Tolabo."

Frequently planted as a fence for native gardens near the sea.

2. **C. defixum,** Gawl. (Kth. l. c. p. 561, cum syn.)—*C. Asiaticum,* Roxb. l. c. p. 127.—c.p. 2338.

Hab. Hot dry northern parts of the island.

3. **C. ornatum,** Herb. (Kth. l. c. p. 573, varr. α et β, cum syn.)—*C. Zeylanicum,* Linn.; Roxb. l. c. p. 139. Var. α, c.p. 3734. Var. β, c.p. 3735.

Hab. Warmer parts of the island. Nom. vulg. "Goda-mānil."

2. PANCRATIUM, Linn.

1. **P. Malabaricum,** Herb. (Kth. Enum. v. p. 661, cum syn.)—c.p. 2339.

Hab. On the banks of rivers and streams, up to an elevation of 2000 feet. Nom. vulg. "Deya-mānil."

2. **P. Zeylanicum,** Linn. (Kth. l. c. p. 662, cum syn.; Roxb. Fl. Ind. ii. p. 124.)—c.p. 3211.

Hab. Amongst grass, in the warmer parts of the island. Nom. vulg. "Wal-Loonoo."

The Cinghalese employ the bulbs medicinally.

P. verecundum, Soland., stated to be a native of the island, I have never met with here, either wild or under cultivation.

Digitized by Google

CLIII. BURMANNIACEÆ.

(Includ. *Taccaceas*; auct. J. D. Hooker.)

1. BURMANNIA, Linn.

1. **B. distachya,** R. Br. Prod. p. 52.—*B. disticha,* Linn.; Roxb. Fl. Ind. ii. p. 117, cum syn.—C.P. 2313.

HAB. Common in the hotter parts of the island. Nom. vulg. "Mā-deya-jāwāla."

2. **B. Championii,** Thw.; *caule* filiformi, simplici, aphyllo, squamoso; *floribus* subcapitatis; *perigonii* tubo 3-costato, nec alato.—*B. pseudo-alata,* Champ. MSS.—C.P. 2735.

HAB. Saffragam District and Hinidoon Corle.

Tota planta albida, 4–8-pollicaris. *Squamæ* caulis sparsæ, lanceolatæ, 2 lin. longæ. *Flores* 9–12, circiter 3 lin. longi. *Perigonii lobi majores* lanceolati, marginibus involutis, *minores* lineares, truncati.

3. **B. pusilla.**—*Gonyanthes pusilla,* Miers, in Linn. Soc. Trans. xviii. p. 537, t. 38, f. 3.—C.P. 3023. Var. β; parum elatior, alis tubi perigonii angustioribus.—C.P. 2312.

HAB. Var. α; North of the island, *Gardner*. Trincomale, *Rev. S. O. Glenie*. Var. β; Caltura, *Gardner*; Kokool Corle.

There does not appear to me sufficient difference in the seed-vessels of the preceding three species to make it desirable to constitute two genera of them. I observe in my specimens of *B. distachya*, a disposition in the capsules to split transversely about their middle, just as takes place in the present species.

2. THISMIA, Griff.

Tribrachys, Champion.

1. **T. Gardneriana,** Hk. f. MSS.; caule unifloro, perianthii lobis latioribus rotundatis.—*Tribrachys Gardneriana,* Champ. MSS. et Ic. in Herb. Hook.

HAB. Galle, *Champion (Herb. Hook.)*.

I have never met with this species. "Very nearly allied to *T. Brunonis*, Griff. Linn. Trans. xix. 341. t. 39, but differs in the solitary flower and broader lobes of the perianth."—*J. D. H.*

3. TACCA, Forst.

1. **T. pinnatifida,** Forst. (Roxb. Fl. Ind. ii. p. 172; Miquel, Fl. Ind. Bat. iii. p. 566, cum syn.)—C.P. 2320.

HAB. North of the island, *Gardner*. Trincomale, *Rev. S. O. Glenie*.

CLIV. DIOSCOREACEÆ.

1. DIOSCOREA, Linn.

1. **D. pentaphylla,** Linn. (Kth. Enum. v. p. 396, cum syn.; Wight, Ic. t. 814.)—*D. triphylla,* Linn.; Kth. l. c. p. 392, cum syn.—C.P. 2869.

Digitized by Google

Hab. Very abundant in the warmer parts of the island. Nom. vulg. "Kattoo-wella."

The tuberous roots of this and of the following species, excepting *D. bulbifera*, are eaten by the Cinghalese.

2. **D. tomentosa,** Kœnig. (Roxb. Fl. Ind. iii. p. 805.)—*Helmia ? tomentosa*, Kth. l. c. p. 439 ; Wight, Ic. t. 815.—C.P. 2304.

Hab. Common up to an elevation of 2000 feet. Nom. vulg. "Ooyala."

3. **D. bulbifera,** Linn. (Willd. Sp. Pl. iv. p. 793, cum syn. ; Wight, Ic. t. 878.)—*Helmia bulbifera*, Kth. l. c. p. 435, cum syn.—C.P. 2977.

Hab. Very common on the banks of rivers and streams up to an elevation of 2000 feet. Nom. vulg. " Pannoo-Condōl.

The tubers of this species are employed by the Cinghalese for attracting fish to certain spots where they can be easily caught. The tubers are broken into pieces and thrown into the water daily for some time.

4. **D oppositifolia,** Linn. (Roxb. l. c. p. 804 ; Wight, Ic. t. 813.)—C.P. 2303.

Hab. Abundant in the hotter parts of the island. Nom. vulg. "Hirri-talla."

Tota planta plus minus villosula, foliis denique subglabris.

5. **D. intermedia,** Thw. ; glaberrima, inermis ; *caule* tereti ; *foliis* oppositis vel alternis, ellipticis oblongisve, acuminatis, mucronatis, 3-nerviis ; *nervis lateralibus* margine subparallelis et exinde costa distantibus ; *spicis* FŒM. : solitariis, simplicibus, folio subæquilongis ; MASC. : folio brevioribus, fasciculatis vel longiuscule paniculatis.—C.P. 2870, 3022.

Hab. Hotter parts of the island, not very common.

Folia circiter 3 poll. longa, ½–1½ poll. lata, *petiolo* ½–1 poll. longo. *Spicæ masculæ* pollicares vel parum ultra. *Flores* 6-andri.

Allied to the preceding, but differs in being entirely glabrous, in the leaves having their lateral nervures more distant from the costa, and in the male flowers being less crowded and on somewhat longer spikes. The present is well distinguished from the following species, some forms of which it closely resembles, by its shorter and more numerous spikes of male flowers, and the more diverging lateral nervures of its leaves.

6. **D. spicata,** Roth. Pl. Nov. p. 571 ? α ; *foliis* basi acutis.—C.P. 2871. β ; *foliis* basi rotundatis, cordatis vel etiam profunde cordatis.—C.P. 2872, 3119.

Hab. Very common in the Central Province, up to an elevation of 4000 feet.

Glabra, inermis. *Folia* alterna vel opposita, elliptica vel oblonga, acuminata, mucronata, 3–5 vel rarius 7-nervia, prominentim reticulata, *petiolo* ½–¾ poll. longo. *Spicæ* sparsifloræ, sæpius valde elongatæ ; FŒM. solitariæ ; MASC. solitariæ vel binæ, aliquando parce ramosæ. Flor. MASC. 6-andri. Flor. FŒM. *stigmatibus* subsessilibus, parvis, simplicibus, reflexis : *staminibus sterilibus* linearibus, apice emarginatis.

Dioscorea sativa, Linn. (nom. vulg. " Kattoo-kookoolala," " Jaa-waal,"), *D. alata*, Linn. (nom. vulg. " Kirri-koudōl," " Kahata-kondōl," " Lingoorella "), and *D. purpurea*, Roxb., are cultivated in native gardens.

Digitized by Google

CLV. PANDANEÆ.

1. PANDANUS, Linn.

1. **P. odoratissimus,** Linn. (Roxb. Plant. Cor. tt. 94, 95, 96; Flor. Ind. iii. p. 738, cum syn.; Miq. Fl. Ind. Bat. iii. p. 156, cum syn.)—An *P. fascicularis,* Willd.?—C.P. 3739.

HAB. Very abundant near the sea. Nom. vulg. "Moodoo-kaiyeya."

Stamina in racemulis numerosis ramos spadicis masculi dense investientibus.

The aerial roots are used medicinally by the Cinghalese.

2. **P. humilis,** Rumph. (Miq. l. c. p. 160, cum syn.)—C.P. 3740.

HAB. Used as a fence-plant for paddy-fields in the warmer parts of the island. Nom. vulg. "Doonoo-kaiyeya."

Stamina simplicia, densissime conferta in ramos spadicis masculi, filamentis brevissimis. *Capitula fructus maturi* singula 4–6 poll. longa, 3–4 poll. lata.

The leaves of this plant are made into mats by the Cinghalese.

3. **P. furcatus,** Roxb. Fl. Ind. iii. p. 744; Miq. l. c. p. 162, cum syn. t. 37.—C.P. 2734.

HAB. Similar situations with the last. Nom. vulg. "O-kaiyeya."

Stamina penicillatim disposita, ad apices pedunculorum numerosorum ramos spadicis masculi arcte tegentium.

2. FREYCINETIA, Gaud.

1. **F. radicans,** Gaud. in Freyc. It. Bot. p. 432. t. 43; Miq. Fl. Ind. Bat. iii. p. 171.—An *F. insignis,* Blume, Rumph. p. 158, t. 42, forma minor?—C.P. 2333.

HAB. Southern and Central Provinces, up to an elevation of 4000 feet, climbing over the trunks and branches of large trees.

Capitula fructus maturi 2–3 poll. longa, pulchre rubra.

2. **F. angustifolia,** Blume, l. c. p. 159, t. 43; Miq. l. c. cum syn.—C.P. 366.

HAB. In similar situations with the preceding, and more abundant.

3. NIPA, Rumph.

1. **N. fruticans,** Thunb. (Miq. Fl. Ind. Bat. iii. p. 150, cum syn.)—C.P. 3333.

HAB. Mangrove swamps in the south of the island. Nom. vulg. "Gim-pōl."

CLVI. PALMACEÆ.

TRIB. I. *ARECINEÆ,* Mart.

1. ARECA, Linn.

1. **A. Catechu,** Linn. (Roxb. Pl. Cor. i. p. 54, t. 75; Fl. Ind. iii. p. 615; Miq. Fl. Ind. Bat. iii. p. 8, cum syn.)—C.P. 3471.

HAB. Abundant in native gardens throughout the warmer parts of the island. Nom. vulg. "Poowak-gass."

Digitized by Google

An apparently larger form of this (*Ar. alba*, Rumph., Miq., haud Willd.) occurs sparingly in native gardens, but it is said to have been introduced and not to be indigenous to the island. The seeds of both kinds are used by the natives as a masticatory with Betel.

2. **A. concinna,** Thw.; inermis, *caudice* tenui, simplici, annulato; *frondibus* paucis, pinnatisectis, subglabris; *segmentis* falcatis, valde acuminatis; *terminalibus* brevioribus, plus minus confluentibus, truncatis, apice dentatis; *spadice* ramoso; *floribus* ut in *A. Catechu* dispositis; MASC.: 6-andris; *petalis* ovato-lanceolatis, quam sepala rotundato-oblonga fere 3-plo longioribus; *ovarii rudimento* trigono-claviformi; FŒM.: *drupa* fibrosa, subfusiformi, umbonata; *albumine* ruminato.—"*Areca Dicksonii*, Roxb.?" Moon's Cat. p. 66.—C.P. 620.

HAB. Forests in the Reigam and Pas-doon Corles. Nom. vulg. "Laina-terri-gass."

Caudex 8–12-pedalis, viridis, 1½–1–¾ poll. in diam. *Frondes* circiter 7, 3–3½ ped. longæ (excl. basi vaginante 16 poll. longa) segmentis mediis 2 ped. longis, 2½ poll. latis. *Drupa* sesquipollicaris, flavo-rufescens.

Apparently closely allied to *A. pumila*, Blume, Rumph. t. 99 (haud Mart.), but the male flowers of the present plant are biserial, not uniserial as described in Blume's species. The Cinghalese chew the albumen of the seeds with their Betel.

2. PTYCHOSPERMA, Labill., Miq.

Sect. *Spiranthæ*, Miq.

1. **P. rupicola,** Thw.; inermis; *caudice* elato, simplici, annulato; *frondibus* subglabris, pinnatisectis, *segmentis* lanceolatis, oblique acuminatis, terminalibus plus minus confluentibus, præmorso-dentatis, nervo medio superne prominenti, subtus squamoso; FLOR. MASC.: 12-andris; *petalis* acutis, quam sepala rotundata obtusa 4–5-plo longioribus; *ovarii rudimento* parvo; FLOR. FŒM.: *sepalis petalis*que rotundatis, obtusis, *ovario* rotundato, acuminato; *stigmatibus* minutissimis; *ovulo* pendulo. —"*Caryota mitis*, Willd.?" Moon's Cat. p. 65.—C.P. 2732.

HAB. Rocky places in forests of the Southern and Central Provinces, at no great elevation. Nom. vulg. "Dotaloo-gass."

Caudex 30–40-pedalis, 4–5 poll. in diam. *Frondes* 6–8-pedales, basi vaginante 15 poll. longa. *Spathæ completæ* 2, acuminatæ, externe parce furfuraceæ, *exterior* crista acuta, ¾ poll. lata marginata. *Spadix* valde ramosus, pallide ochraceus, plus minus rufescens, sesquipedalis, pedunculo brevi. *Drupa* fibrosa, parum carnosa, subsphærica, ¾ poll. in diam., abrupte obliqueque acuminata. *Semen* pendulum, *albumine* ruminato, coccineo-variegato.

The seeds of this are used by the Cinghalese with their Betel, as a substitute for those of the *Areca Catechu*.

3. ONCOSPERMA, Blume.

1. **O. fasciculata,** Thw.; stolonifera; *caudice* elato, aculeato; *frondium* segmentis secus rachin fasciculatis, 4–7-nis, 4–7-stiche (vel subspiraliter) dispositis, apicibus dependentibus; *spathis spadice*que inermibus.—*Caryota horrida*, Moon's Cat. p. 64 (haud Willd.)—C.P. 2337.

HAB. Forests in the Central Province, up to an elevation of 5000 feet. Nom. vulg. "Kattoo-kittool."

Caudex 30–40-pedalis vel ultra, 5–6 poll. in diam., aculeis numerosis nigris compressis flexilibus patentibus armatus. *Frondes* (excl. basi vaginante externe furfuracea

Digitized by Google

aculeataque 2½ ·ped. longa) 8-pedales; *rachide* fusco-furfuracea basin versus plus minus aculeata; *laminæ segmentis* lanceolatis, valde acuminatis, 12–18 poll. longis, 1–1¾ poll. latis, basi parum induplicatis, nervo medio superne prominente subtus parce squamoso. *Spathæ completæ* 2, parcissime furfuracea. *Spadix* 2-pedalis, ramosus, densiflorus (2 masc. 1 fœm. in scrobic.). FLOR. MASC. 9-andri, *ovario sterili* majusculo, fere ad basin trifido, segmentis cylindricis. *Drupa* sphærica, semipollicaris, nigro-purpurea. *Albumen* ruminatum, albidum, ochraceo-variegatum.

Distinguished from *Oncosperma filamentosa*, Blume (*Areca Nibung*, Mart.), and *Areca horrida*, Griff., by its 9-androus male flowers and the fasciculate arrangement of the laminæ of its fronds.

4. CARYOTA, Linn.

1. **C. urens,** Linn. (Roxb. Fl. Ind. iii. p. 625, cum syn.)—C.P. 3742.

HAB. Southern and central parts of the island, up to an elevation of 2000 feet; principally in native gardens. Nom. vulg. " Kittool-gass."

From the flowering stems of this plant toddy is drawn, from which a coarse kind of sugar is made by the Cinghalese. The wood is useful for building purposes.

TRIB. II. *BORASSINEÆ*, Mart.

5. BORASSUS, Linn.

1. **B. flabelliformis,** Linn. (Roxb. Cor. Pl. i. p. 50, tt. 71, 72; Fl. Ind. iii. p. 790.)—C.P. 3743.

HAB. Hot, drier, and especially the northern parts of the island. Nom. vulg. " Tal-gass."

Where this tree grows in abundance it is second only to the Cocoa nut in value to the native population, every part of the plant being made available for some useful purpose.

TRIB. III. *CORYPHINÆ*, Mart.

6. CORYPHA, Linn.

1. **C. umbraculifera,** Linn. (Miq. Fl. Ind. Bat. iii. p. 49, cum syn.) —C.P. 2336.

HAB. Southern and central warm moister parts of the island. Nom. vulg. " Talla-gass."

Mats, useful for constructing temporary dwellings and for other purposes, are made from the large fronds of this fine tree.

7. PHŒNIX, Linn.

1. **P. sylvestris,** Roxb. Fl. Ind. iii. p. 787, cum syn.—*Palma dactylifera minor*, etc., Burm. Thes. Zeyl. p. 183, cum syn.—C.P. 3172.

HAB. Very common in the hotter parts of the island.

Caudex 8–10-pedalis. *Drupa* 6 lin. longa, 3–3½ lin. lata, nitida, rubro-nigrescente.

The Cinghalese eat the sweetish pulp of the ripe seeds, and construct mats and betel-boxes of the leaves.

Digitized by Google

TRIB. IV. *COCOINÆ*, Mart.

8. COCOS, Linn.

1. **C. nucifera,** Linn. (Roxb. Pl. Cor. i. p. 52, t. 73; Fl. Ind. iii. p. 614; Miq. Fl. Ind. Bat. iii. p. 64, cum syn.)—C.P. 3744.

HAB. Commonly cultivated throughout the warmer parts of the island. Nom. vulg. "Pol-gass."

The value of this tree is so well known, that it is unnecessary here to make any observations on the subject.

TRIB. V. *LEPIDOCARYINEÆ*, Mart.

9. CALAMUS, Linn.

Nom. vulg. "Waiwel."

1. **C. longisetus,** Griff. Palms of British India, p. 42, tt. 189, A, B. (Martius, Gen. et Sp. Palm. p. 332: Miq. Fl. Ind. Bat. iii. p. 114.)—C.P. 2873.

HAB. Hantani District, in the Central Province, at an elevation of 2000 to 3000 feet.

Planta fœm.: Flores secus ramulos spadicis per paria (1 masc., 1 hermaph.) dispositi. *Drupa* obovata (includ. rostro obtuso 2 lin. longo), pollicaris, squamis majusculis, in 5 vel 6 spiris, ochraceis, margine fuscis.

Closely allied to *C. erectus*, Roxb. (*C. schizospathus*, Griff. l. c. p. 41), of which I have specimens from Dr. Hooker, but besides the differences pointed out by Griffith in the work quoted, the rostrum of the fruit in the present species is longer and its scales larger and fewer than in *C. erectus*.

2. **C. rudentum,** Lour. (Willd. Sp. Pl. ii. p. 203; Roxb. Fl. Ind. iii. p. 776.)—*Palmajuncus albus*, Rumph. Amboin. v. p. 102, t. 53.—C.P. 2874.

HAB. Hotter parts of the island. Nom. vulg. "Mā-waiwel."

3. **C. Roxburghii,** Griff. l. c. p. 55, t. 112.—*C. Rotang*, Roxb. l. c. p. 777 (*non Linn. neque Willd. nisi partim*).—C.P. 3388.

HAB. Common in the hotter parts of the island.

4. **C. gracilis,** Roxb. l. c. p. 781; Griff. l. c. p. 64, t. 196, cum syn.—C.P. 2334.

HAB. South of the island.

Frondis laminæ latitudine valde varia, secus rachin fasciculatæ vel nonnunquam flabellatim apicales. *Spadices masculi* 3–5-pollicares. *Flores* plus minus conferti. *Spad. fœm.* nondum vidi.

5. **C. tenuis,** Roxb. l. c. p. 780; Griff. l. c. p. 57, tt. 93, A, B, C.—*C. monoicus*, Roxb. l. c. p. 789?—C.P. 2335.

HAB. Hotter parts of the island, not very uncommon.

Tota planta, frondium laminis exceptis, plus minus fugaci-ferrugineo-furfuracea. *Spadices masc.* supradecompositi, *ramulis florigeris* brevibus, recurvis, paucifloris. *Flores* distichi, conferti.

6. **C. delicatulus,** Thw.; *frondis laminis* numerosis, æquidistantibus, lineari-lanceolatis, valde acuminatis, margine et utrinque ad nervos longiuscule setigeris; *rachide* fugaci-ferrugineo-furfuracea, carina aculeis uncinatis armata; *spadicibus masculis* valde elongatis, filiformibus, de-

Digitized by Google

compositis vel parum supradecompositis; *spathis* inermibus, basi attenuatis, apice longiuscule ciliati; *floribus* alternatim distichis, parum distantibus.—C.P. 3159.

HAB. Galle District.

Frondis laminæ 8 poll. longæ, ½ poll. latæ. *Spad. masc. rami florigeri* circiter 18, singuli 1–5 poll. longi. *Bracteæ bracteolæ*que minutæ. FLOR. MASC. *Calyx* urceolatus, 3-dentatus. *Corolla* duplo longior, fere ad basin tripartita, segmentis oblongis, acutis. *Stamina* filamentis longiusculis, subliberis. *Ovarii rudimentum* minutum.

I regret not being able at present to obtain sufficient materials to draw up so complete a description as could be desired of this apparently very distinct species.

CLVII. TYPHACEÆ.

1. TYPHA, Linn.

1. **T. angustifolia,** Linn. (Kunth, Enum. iii. p. 91, cum syn.; Miq. Fl. Ind. Bat. iii. p. 173, cum syn.; Roxb. Fl. Ind. iii. p. 567.)—*T. elephantina,* Roxb. l.c. p. 566.—C.P. 3218.

HAB. Warmer parts of the island, not very common.

CLVIII. PISTIACEÆ.

1. PISTIA, Linn.

1. **P. Stratiotes,** Linn. (Roxb. Fl. Ind. iii. p. 131, cum syn.; Miq. Fl. Ind. Bat. iii. p. 218, cum syn.)—C.P. 3334.

HAB. Warmer parts of the island. Nom. vulg. "Deya-parandella."

2. LEMNA, Linn.

1. **L. minor,** Linn.; Kunth, Enum. iii. p. 4, cum syn.—C.P. 2379.

HAB. Not uncommon.

2. **L. polyrhiza,** Linn.; Eng. Bot. t. 2458?—*L. major,* Griffith, Notulæ (Monocot.), p. 220, t. 264. An *L. orbiculata,* Roxb. Fl. Ind. iii. p. 565?—C.P. 2378.

HAB. North of the island, *Gardner.*

CLIX. HYDROCHARIDEÆ.

1. HYDRILLA, Rich.

1. **H. verticillata,** Casp. in Pringsh. Jahrb. i. 494.—*H. dentata,* Casp. Bot. Zeit. (1854) p. 56. *H. Wightii,* Planch. Ann. des Sc. Nat. (Botanique) 3me ser. xi. p. 79. *H. ovalifolia,* Rich. *H. angustifolia,* Blume, Mus. Bot. Lugd. Bat. i. p. 82. *Vallisneria verticillata,* Roxb. Fl. Ind. iii. p. 751. *Serpicula verticillata,* Roxb. Pl. Cor. t. 164.—C.P. 2310 (2305, 2309).

HAB. Common in the warmer parts of the island.

Fructus (in meis specim.) demum dimidio superiore filamentis paucis longiusculis acutis squarrosis appendiculato.

Digitized by Google

2. NECHAMANDRA, Planch.

1. **N. alternifolia.**—*N. Roxburghii*, Planch. Ann. des Sc. Nat. (Bot.) 3me ser. xi. p. 78 (excl. syn. Roxb. Pl. Cor. t. 165). *Vallisneria alternifolia*, Roxb. Fl. Ind. iii. p. 750.—C.P. 3176.
HAB. Batticaloa District.

3. BLYXA, Thouars.

1. **B. octandra,** Planch. in Hb. Hook.—*B. Griffithii*, Planch. in Hb. Hook. *B. Roxburghii*, Rich.; Miq. Fl. Ind. Bat. iii. p. 237, cum syn. *Vallisneria octandra*, Roxb. Pl. Cor. t. 165; Fl. Ind. iii. p. 752. *Diplosiphon oryzetarum*, Dcne., in Jacq. Voy. Bot. 167.—C.P. 237.
HAB. Common in the warmer parts of the island.

FLOR. HERMAPHR.: *Stamina* 3, cum perianthii laciniis interioribus alternantia, antheris linearibus polliniferis. *Pollen* sphæricum, echinulatum.

In all the female flowers I have examined of this plant I have found three stamens alternating with the inner lobes of the perianth.

4. ENHALUS, L. C. Rich.

1. **E. marinus,** Griff. Not. (Monocot.) p. 178, tt. 249, 250.—*E. acoroides*, Rich.; Zoll. Cat. p. 60. *E. Kœnigii*, Rich.; Miq. Fl. Ind. Bat. iii. p. 237. *Stratiotes acoroides*, Linn. f.; Willd. Sp. Pl. iv. p. 820. *Acorus marinus*, Rumph. Herb. Amb. vi. p. 191, t. 75, f. 2—C.P. 2296.
HAB. Jaffna, *Gardner*.

5. OTTELIA, L. C. Rich.

1. **O. alismoides,** Pers. Syn. p. 400, cum syn.—*Damasonium Indicum*, Willd.; Roxb. Pl. Cor. t. 185. *Stratiotes alismoides*, Linn.—C.P. 2316.
HAB. Common in the warmer parts of the island.

CLX. ALISMACEÆ.

1. ALISMA, Juss.

1. **A. glandulosum,** Thw.; acaule, *foliis* longe petiolatis, ovatis, subacutis, subtus sparsim glanduloso-punctatis, profunde cordatis, lobis posticis ovatis approximatis parum acutis; *scapo* foliis subæquilongis, apice paniculato, multifloro; *floribus* 3-nis, longe pedicellatis, 6-andris; *carpidiis* 4–5, dorso 4-costatis, costis margine tuberculatis.—C.P. 2318.
HAB. Tanks in the hotter northern parts of the island.

Folia 6–8 poll. longa, 4–5 poll. lata, *petiolo* 2–4-pedali vel ultra. *Bracteæ* majusculæ, lanceolatæ, acuminatæ. *Flores* parvi, sepalis petalisque rotundatis.

2. **A. obtusifolium.**—*Sagittaria obtusifolia*, Linn.; Kunth, Enum. iii. p. 158, cum nota ("potius *Alismatis* species?"); Roxb. Fl. Ind. iii. p. 646.—*Culi-tamara*, Rheed. Hort. Mal. xi. t. 45.—C.P. 2317.
HAB. In similar situations with the last species.

Digitized by Google

CLXI. NAJADACEÆ.

1. CYMODOCEA, Kœnig.

1. **C. æquorea,** Kœn. (Kunth, Enum. iii. p. 118, cum syn.)—C.P. 2380.
HAB. Point de Galle, *Gardner*.

2. THALASSIA, Soland.

1. **T. stipulacea,** Kœn. (Kunth, Enum. iii. p. 120, cum syn.)—C.P. 3055.
HAB. Trincomalee, *Prof. W. H. Harvey*.

3. POSIDONIA, Kœn.

1. **P. serrulata,** Spr. (Kunth, Enum. iii. p. 122, cum syn.)—C.P. 3056.
HAB. Trincomalee, *Prof. W. H. Harvey, Rev. S. O. Glenie*.

Folia linearia (in meis specim.), 6 poll. longa, ¼ poll. lata, 15-nervia, apice rotundata, argute serrulata, *basi vaginante* sesquipollicari, *ligula* brevissima truncata. Inflorescentiam nondum vidi.

4. RUPPIA, Linn.

1. **R. subsessilis,** Thw.; *fasciculis* versus pedunculi apicem per paria approximatis, hinc *floribus* 2–3-subverticillatis; *nuculis maturis* obtuse obovoideis, subsessilibus.—C.P. 3214.
HAB. Jaffna, *Moon*.

5. APONOGETON, Thunb.

Nom. vulg. "Kaikateya."

1. **A. monostachyon,** Linn. f. (Roxb. Pl. Cor. i. t. 81; Fl. Ind. ii. p. 210, cum syn.)—C.P. 2307.
HAB. North of the island, *Gardner*.

2. **A. crispus,** Thunb.; Spr. Syst. ii. 465.—*A. undulatus*. Roxb. Fl. Ind. ii. p. 211.—C.P. 2306, 2308, 3381.
HAB. Central Province, up to an elevation of 6000 feet.

Folia oblonga, lanceolata vel linearia, basi cordata vel acuta, breve vel longiuscule petiolata.

The larger, more translucent, and transversely-veined leaves of the present species at once distinguish it from the preceding. The roots are eaten by the Cinghalese.

6. POTAMOGETON, Linn.

1. **P. natans,** Linn. (Kunth, Enum. iii. p. 127, cum syn.)—C.P. 590.
HAB. Ambagamowa District.

2. **P. pectinatus,** Linn. (Kunth, l. c. p. 137, cum syn.)—C.P. 3531.
HAB. Caltura.

Digitized by Google

CLXII. AROIDEÆ.

TRIB. I. *EUAROIDEÆ.*

1. CRYPTOCORYNE, Fisch.

1. **C. spiralis,** Fisch.; Wight, Ic. t. 773.—*Ambrosinia spiralis,* Roxb. Fl. Ind. iii. p. 492.

HAB. Ceylon, *Walker (Herb. Hook.).*

I have not met with this species, nor are there specimens of it in this Herbarium.

2. **C. Thwaitesii,** Schott, Prod. Syst. Aroid. p. 14.—C.P. 3464.

HAB. Singhe-rajah forest, and at Hewessee, in the Pas doon Corle.

Folia obovata, basi apiceque parum angustata, superne punctis elevatis densissime ornata, margine elegantule undulata, 1–3 poll. longa, ¾–1½ poll. lata, basi cordata, lobis posticis rotundatis; *petiolo* subæquilongo. *Scapus* brevissimus. *Spatha* oblonga, in rostrum longiusculum gradatim angustata, nec torta.

2. LAGENANDRA, Dalzell.

1. **L. ovata.**—*L. toxicaria,* Dalz. in Hook. Journ. of Bot. iv. (1852) p. 289; Miq. Fl. Ind. Bat. iii. p. 192, cum syn. *Arum ovatum,* Linn. *Karin-pola,* Rheed. Hort. Mal. xi. p. 45, t. 23.—C.P. 3315.

HAB. Very abundant in the Central Province, etc. Nom. vulg. "Kettulla."

2. **L. lancifolia.**—*Cryptocoryne lancifolia,* Schott, l. c. p. 15. —C.P. 3173, 3174.

HAB. Banks of rivers and streams, in the southern and central parts of the island. Nom. vulg. "Atta-oodiyang."

The roots are used medicinally.

Folia ovato-lanceolata vel lanceolata, acuminata, superne sparse subtus dense albido punctulata, basi rotundata vel acuta, 2–4 poll. longa, ¾–1½ poll. lata; *petiolo* subæquilongo. *Scapus* brevis. *Spatha* oblonga, plus minus rugosa, in rostrum abrupte vel gradatim angustata, 1–2-pollicaris, purpurascens, interne atro-purpurea. *Ovaria* 30–40, circa medium sub stigmate conico minute tuberculata.

3. **L. Kœnigii.**—*Cryptocoryne Kœnigii,* Schott, l. c. p. 16; *foliis* longiusculis, lineari-lanceolatis, acuminatis, sessilibus; *scapo* foliis breviore; *spatha* longe et gradatim acuminata.—C.P. 3496.

HAB. Singhe-rajah forest, between Galle and Katnapoora.

Folia 1–2-ped. longa, 3–8 lin. lata, subtus albido-punctulata. *Scapus* 2–8 poll. longus. *Ovaria* circiter 30. *Semina* 2½ lin. longa, pluri-alato-costata.

3. ARUM, Linn.

Sect.—*Spadix apice subulato.* Typhonium, *Schott.*

1. **A. divaricatum,** Linn. (Benth. Fl. Hongkong. p. 342, cum syn.) —*Typhonium divaricatum,* Blume, Rumph. i. p. 130, t. 36; Miq. l. c. p. 192, cum syn.—C.P. 3666.

HAB. Common in the hotter parts of the island.

2. **A. trilobatum,** Linn. (an Roxb.?)—*Typhonium trilobatum,* Schott; Miq. Fl. Ind. Bat. iii. p. 194, cum syn. *A. Orixense,* Roxb. Fl. Ind. iii. p. 503; Wight, Ic. t. 801.—C.P. 2896.

Digitized by Google

HAB. Very common in damp grassy places in the Central Province. Nom. vulg. "Panoo-alla."

The leaf of Roxburgh's *A. Orixense*, as figured by Wight, is so similar in form to that of the present plant, that I cannot doubt their being the same species, and that the drawing of the inflorescence of the former must be incorrect. The Cinghalese employ the bruised roots to destroy maggots in the sores of cattle.

4. ARISÆMA, Mart.

1. **A. curvatum,** Kunth, Enum. iii. p. 20, cum syn.—*Arum curvatum,* Roxb. Fl. Ind. iii. p. 506; Wight, Ic. t. 788.
HAB. Ceylon, *Walker. (Herb. Hook.)*

2. **A. filiforme,** Blume, Rumph. i. p. 102, t. 28.—An *A. curvati,* Kunth, var. ?—C.P. 3118.
HAB. South of the island.

In my specimens the five folioles are radiate, not pedate as in Blume's figure, but in other respects the resemblance appears to be perfect.

3. **A. papillosum,** Steud. (Schott, Synop. Aroid. p. 31.)—An *A. erubescens,* Sch. l. c. p. 30 ?—C.P. 546.
HAB. Central Province, at an elevation of 4000 to 6000 feet. Nom. vulg. "Wal-kidāran."

The roots are employed as a medicine by the Cinghalese.

5. AMORPHOPHALLUS, Blume.

1. **A. campanulatus,** Bl. Rumph. i. p. 144, tt. 32, 33; Miq. Fl. Ind. Bat. iii. p. 201, cum syn.; Wight, Ic. t. 785.—C.P. 2823.
HAB. Hotter parts of the island, especially near the sea. Nom. vulg. "Kidāran."

The Cinghalese eat the roots of the cultivated variety (nom. vulg. "Kanna-kidāran") of this plant, and use those of the wild one medicinally.

2. **A. Zeylanicus,** Blume, l. c. p. 148.—*Brachyspatha Zeylanica,* Schott, Synop. Aroid. p. 36.
HAB. Between Tangulle and Matura, *Kœnig. (Blume, l. c.)*

I have not been so fortunate as to meet with this or with the next species, nor are there specimens of either in this Herbarium.

3. **A. dubius,** Blume, l. c. p. 142.—*Schena,* Rheed. Hort. Mal. xi. p. 35, t. 18.
HAB. Ceylon, *Rheede, l. c.*

6. COLOCASIA, Ray.

1. **C. antiquorum,** Schott, Syn. Aroid. p. 40, cum syn. (Miq. Fl. Ind. Bat. iii. p. 202, cum syn.)—*Arum Colocasia,* Linn.; Roxb. Fl. Ind. iii. p. 494. *A. nymphæifolium,* Roxb. l. c. p. 495; Wight, Ic. t. 786.—C.P. 3 24.
HAB. Very abundant on the banks of streams and other damp places. Nom. vulg. "Gahala."

The very young leaves of this, and the tubers and young leaves of the cultivated variety (nom. vulg. "Kandalla") are eaten by the Cinghalese.

Digitized by Google

2. **C. macrorrhiza,** Schott, Mel. i. 18; Kunth, Enum. iii. p. 38.—*C. odora,* Brongn. Kunth, l. c. p. 39; Benth. Fl. Hongkong. p. 343, cum syn. *Alocasia macrorrhiza,* Schott, Miq. l. c. p. 205, cum syn. *Arum odorum,* Roxb. l. c. p. 499. *A. macrorrhizum,* Linn. Sp. 1369; Fl. Zeyl. no. 327.—C.P. 3725.

HAB. Warmer parts of the island. Nom. vulg. "Habarella."

The tubers and young leaves of the cultivated, and the very young leaves of the wild plant, are eaten by the Cinghalese.

3. **C. cucullata,** Schott, Mel. i. 18; Kunth, l. c. p. 38, cum syn.—*Alocasia cucullata,* Schott, Syn. Aroid. p. 48. *Arum cucullatum,* Lour.; Roxb. l. c. p. 501; Wight, Ic. t. 787.—C.P. 3746.

HAB. On the roadside between Caltura and Galle: possibly not truly indigenous.

4. **C. vivipara.**—*Remusatia vivipara,* Schott; Kunth, l. c. p. 36; Wight, Ic. tt. 798, 900. *Arum viviparum,* Roxb. l. c. p. 496.—C.P. 2323.

HAB. Common in forests of the Central Province.

C. Indica is cultivated in native gardens as a vegetable.

TRIB. II. *ORONTIEÆ.*

7. LASIA, Lour.

1. **L. spinosa.**—*L. heterophylla,* Schott; Miq. Fl. Ind. Bat. iii. p. 176, cum syn. *L. Hermanni,* Schott. *Pothos heterophylla,* Roxb. Fl. Ind. i. p. 437; Wight, Ic. t. 777. *Dracontium spinosum,* Linn. Fl. Zeyl. No. 328.—C.P. 2978 (3315 partim).

HAB. Warmer parts of the island, not uncommon. Nom. vulg. "Kohilla," "Mahakohilla."

A very variable species. The leaves and roots are used as a vegetable in curries, and are also employed medicinally by the Cinghalese.

8. SCINDAPSUS, Schott.

1. **S. Peepla,** Schott, Mel. i. 21; Kunth, Enum. iii. p. 62.—*Rhaphidophora Peepla,* Schott, Prod. Aroid.; Benth. Fl. Hongkong. p. 344, cum syn. *Pothos Peepla,* Roxb. Fl. Ind. i. p. 433; Wight, Ic. t. 780.—C.P. 3667.

HAB. Not uncommon in the Central Province, growing over the trunks of large trees.

2. **S. decursivus,** Schott, Mel. i. 21. (Kunth, l. c. cum syn.; Miq. Fl. Ind. Bat. iii. p. 186, cum syn.)—*Rhaphidophora decursiva,* Schott, Gen. Aroid. t. 77. *Pothos decursivus,* Roxb. l. c. p. 436; Wight, Ic. t. 779.—C.P. 2322.

HAB. Forests of the Central Province, at an elevation of 2000 to 4000 feet. Nom. vulg. "Dada-kaihel."

9. POTHOS, Linn.

1. **P. scandens,** Linn. (Roxb. Fl. Ind. i. p. 430, cum syn.; Wight, Ic. t. 776.)—*P. scandens* and *P. Hookeri,* Schott.—C.P. 2321.

Digitized by Google

Hab. Extremely abundant in the warmer parts of the island. Nom. vulg. "Pota-wel."

The seeds are eaten by the Cinghalese, after being a long time boiled.

2. **P. remotiflora,** Hook. Ic. Pl. ii. t. 133.—An *P. oxyphyllus*, Miq. Fl. Ind. Bat. iii. p. 181, t. 38?—C.P. 2432.

Hab. Central Province, up to an elevation of 4000 feet.

Planta juvenis: Caulis filiformis, elongatus, super truncos arborum repens et iisdem arcte adhærens. *Folia* parva, plus minus conferta, rotundata, apiculata, profunde cordata, 7-nervia, prominentim reticulata, brevi-petiolata.

It will be seen by the above description of it that the young state of this plant is so unlike the appearance it subsequently assumes, that without tracing the transition from one to the other it would be difficult to believe them to belong to one species.

TRIB. III. *ACOROIDEÆ.*

10. **ACORUS,** Linn.

1. **A. Calamus,** Linn. (Roxb. Fl. Ind. ii. p. 169; Kunth, Enum. iii. p. 87, cum syn.)—C.P. 3745.

Hab. Not very uncommon in native gardens. Nom. vulg. "Wadakaha."

The roots and leaves are used medicinally by the Cinghalese.

CLXII. LILIACEÆ.

1. **ASPARAGUS,** Linn.

(Nom. vulg. "Hātāwaareya.")

1. **A. falcatus,** Linn. (Willd. Sp. Pl. ii. p. 152; Burm. Thes. Zeyl. t. 13. f. 2.; Linn. Fl. Zeyl. No. 123.)—C.P. 2298.

Hab. Common in the warmer parts of the island.

Rami scandentes, angulati, aculeati. *Folia* 2½–4 poll. longa, 1–1½ lin. lata, acuta, sessilia, solitaria vel fasciculata. *Racemi* 5–7 lin. longi, 8–10 flori. *Pedicelli* 2 lin. longi, infra medium articulati. *Bracteæ* parvæ, ovatæ, acutæ. *Perianthii* segmenta oblonga, obtusa, 1 lin. longa.

2. **A. racemosus,** Willd. (Roxb. Flor. Ind. ii. p. 151; Wight, Ic. t. 2056.)—*A. floribunda*, Kunth, Enum. v. p. 98, cum syn. An *A. acerosus*, Roxb.?—C.P. 2299 (737 partim).

Hab. Abundant in the warmer parts of the island.

Folia ½–1 poll. longa. *Racemi* sesquipollicares, ad apicem florigeri. *Pedicelli* 2 lin. longi, infra medium articulati. *Perianthii* segmenta 1½ lin. longa.

3. **A. sarmentosus,** Linn. (Kunth, l. c. p. 97, cum syn.)—C.P. 2300 (737 partim).

Hab. Not uncommon, up to an elevation of 5000 feet.

Folia 4–6 lin. longa, ¼–½ lin. lata, plus minus fasciculata. *Racemi* elongati, foliis terminati. *Pedicelli* 2 lin. longi, paullo supra medium articulati. *Perianthii* segmenta 1½–1¾ lin. longa.

This, like the preceding species, has wider leaves when growing in the hills than when occurring near the sea.

The species are all used medicinally by the Cinghalese.

Digitized by Google

2. DRACÆNA, Vand.

1. **D. elliptica,** Thunb. (Kunth, Enum. v. p. 14.)—*D. spicata,* Roxb. var. floribus minoribus. *Cordyline Sieboldii,* Planch. Miq. Fl. Ind. Bat. iii. p. 557, cum syn.—C.P. 2293.

HAB. Shady places, up to an elevation of 4000 feet.

Folia oblonga, oblongo-lanceolata vel lineari-lanceolata, longiuscule acuminata, basi acuta, 6–12 poll. longa, ¼–2 poll. lata, *petiolo* bipollicari. *Flores* pallide virides, 4–5 lin. longi.

3. SANSEVIERA, Thunb.

1. **S. Zeylanica,** Willd. (Kunth, Enum. v. p. 18. cum syn.)—C.P. 2297.

HAB. Hotter parts of the island. Nom. vulg. "Neyanda."

The leaves of this plant yield a fibre of very excellent quality.

4. DIANELLA, Lam.

1. **D. ensifolia,** Redouté, (Kunth, Enum. v. p. 50, cum syn.)—*D. nemorosa,* Lam. Roxb. Fl. Ind. ii. p. 164. (excl. syn. Rumph.)—C.P. 3212.

HAB. Common in the Central Province, up to an elevation of 4000 feet. Nom. vulg. "Monæra-pattang."

5. DISPORUM, Salisb.

1. **D. Leschenaultianum,** Don, (Kunth, Enum. iiii. p. 207, cum syn.; Wight, Ic. t. 2048.)—*D. Mysorense* and *D. Ceylanicum,* Wight, Ic. t. 2049.—C.P. 2319.

HAB. Central Province, at an elevation of 4000 to 7000 feet, on the margins of woods.

6. SMILAX, Tourn.

1. **S. maculata,** Roxb. (Kunth, Enum. v. p. 218, cum syn.; Wight, Ic. t. 2059.)—*S. fulgens,* Wall. Kunth, l. c. p. 219. *S. Villandia,* Ham. in Wall. Cat. No. 5123. *S. Nilgherrensis,* St.—C.P. 75 (308).

HAB. Central Province, up to an elevation of 5000 feet.

2. **S. ovalifolia,** Roxb. Fl. Ind. iii. p. 794; Wight, Ic. t. 809; Kunth, l. c. p. 249.—*S. macrophylla,* Roxb. l. c. p. 793. *S. prolifera,* Roxb. l. c. p. 795. An *S. retusa,* Roxb. l. c. p. 793.—C.P. 2302.

HAB. Common in the warmer parts of the island. Nom. vulg. "Maha-kabarosa."

3. **S. Zeylanica,** Linn. (Kunth, l. c. p. 249, cum syn.; Wight, Ic. tt. 2057, 2058.)—*Kari Vilandi,* Rheed. Hort. Mal. vii. p. 59, t. 31.—C.P. 3670.

HAB. Central Province, up to an elevation of 5000 feet. Nom. vulg. "Heen-kabarosa."

Digitized by Google

7. CHLOROPHYTUM, Ker.

1. **C. parviflorum,** Dalz. in Hook. Journ. of Bot. ii. (1850) p. 141; Bombay Flora, p. 251.—*Phalangium? parviflorum,* Wight, Ic. t. 2039.—C.P. 2292.

HAB. Not uncommon in the southern parts of the island, at no great elevation.

2. **C. breviscapum,** Dalz. l. c.?—C.P. 2291.

HAB. Kornegalle and Matale, *Gardner;* Central Province, common. Nom. vulg. "Bim-pōl."

Folia pedalia, spathulato-lanceolata, acuminata. *Scapi* foliis breviores, parum densiflori. *Pedicelli* breves, apice articulati. *Bracteæ* lineari-lanceolatæ, acutæ, inferiores pollicares. *Sepala* lanceolata, 3 lin. longa, apice plus minus cucullata apiculataque. *Ovarium* loculis circiter 15-ovulatis. *Capsula* triquetra, 4 lin. longa, loculis 8–10-spermis. *Semina* atra, rugosa, minutissime tuberculata.

This appears to agree in every respect with Mr. Dalzell's description, except in the more numerous ovules of the present plant.

Used medicinally by the Cinghalese.

8. ALLIUM, Linn.

1. **A. Hookeri,** Thw.; *scapo* elongato, subtriangulari, basi folioso; *foliis* membranaceis, linearibus, 9–11-nerviis, scapo brevioribus; *umbella* multiflora; *sepalis* linearibus, parum acutis, filamentis subæquilongis; *capsula* sæpius monosperma.—Allium, No. 7. in Herb. Ind. Or. Hook. f. and Thoms.—C.P. 3659.

HAB. Pedrotalagalla near Newera Ellia, at an elevation of 7000 feet.

Scapus 1½–2-pedalis. *Folia* 2½–3 lin. lata, acuminata, apice minutissime retusa. *Pedicelli* 6 lin. longi. *Semina* ovoidea, opaca, rugulosa, nigra, 1½ lin. longa.

This is closely allied to *A. Wallichii,* Kunth, but is smaller in all its parts, and its leaves have fewer nervures.

9. IPHIGENIA, Kunth.

1. **I. Indica,** Kunth, (Enum. iv. p. 213, cum syn.)—*Anguillaria Indica,* R. Br.; Wall. Pl. As. Rar. iii. t. 259. *Melanthium Indicum,* Linn.—C.P. 3680.

HAB. Trincomale, *Rev. S. O. Glenie.*

10. GLORIOSA, Linn.

1. **G. superba,** Linn. (Roxb. Fl. Ind. ii. p. 143, cum syn.)—*Methonica superba,* Lam.; Kunth, Enum. iv. p. 276, cum syn.; Bot. Reg. t. 77. *Mendoni,* Rheed. Hort. Mal. vii. t. 57.—C.P. 2295.

HAB. Common in bushy places, up to an elevation of 3000 feet. Nom. vulg. "Neyangalla."

11. OPHIOPOGON, Ker.

Ophiopogon and *Flüggea,* Kunth (haud *Flüggea,* Willd.).

1. **O. intermedius,** Don, Prod. Fl. Nep. p. 48.—*Flüggea intermedia,*

Digitized by Google

Schult.; Kunth, Enum. v. p. 306. *F. dubia,* Kunth, l. c. p. 305. *F. Wallichiana,* Kunth, l. c. p. 303. *O. Indicus,* Wight, Ic. t. 2050 (an Royle?). An *F. Japonica,* Rich.; Kunth, l. c. p. 302?—C.P. 2294.
HAB. Central Province, up to an elevation of 4000 feet.

12. FLAGELLARIA, Linn.

1. **F. Indica,** Linn. (Kunth, Enum. iii. p. 370, cum syn.; Rheed. Hort. Mal. vii. t. 53.)—C.P. 2301.
HAB. Hotter parts of the island, not uncommon. Nom. vulg. "Goye-wel."

CLXIII. JUNCACEÆ.

1. JUNCUS, DC.

1. **J. glaucus,** Ehrh. (Kth. Enum. iii. p. 316, cum syn.)—C.P. 1003.
HAB. More elevated parts of the Central Province.

2. **J. Leschenaultii,** J. Gay, (Kth. l. c. p. 336.)—*J. Sinensis,* J. Gay; Kth. l. c. *J. Wallichianus,* Laharpe; Kth. l. c. p. 338.—C.P. 844.
HAB. With the preceding species.

2. SUSUM, Blume.

1. **S. anthelminticum,** Blume, (Kth. Enum. iii. p. 371.)—C.P. 2738.
HAB. Marshy places in the south of the island, at no great elevation. Nom. vulg. "Indooroo."

Folia 3-pedalia vel ultra, nigro-viridia, mucronata. *Flores* dioici. *Calycis* laciniæ orbiculatæ. FL. MASC.: *Stamina* 6, filamentis æquilongis, basi coalitis, calycis laciniis interioribus adnatis. *Ovarii rudimentum* parvum. FL. FŒM.: *Stamina* effœta 6, glandulas 3 retusas calycis laciniis interioribus oppositas cingentia. *Stigmata* 3, approximata, discoidea. *Baccæ* atro-purpureæ, pisi parvi magnitudine.

CLXIV. XYRIDACEÆ.

(Nom. vulg. "Ranmanissa.")

1. XYRIS, Linn.

1. **X. Indica,** Linn. (Kth. Enum. iv. p. 20,cum syn.)—C.P. 3028.
HAB. Marshy places in the hotter parts of the island.

2. **X. Walkeri,** Wight, (Kth. l. c. p. 19.)—C.P. 997.
HAB. Similar situations with the preceding.

Semina nitidiora et minus elongata quam ea spec. præcedentis.

3. **X. schœnoides,** Mart. (Kth. l. c. p. 16, cum syn.)—C.P. 3380.
HAB. Paddy fields and other wet places in the Central Province, up to an elevation of 6000 feet.

4. **X. pauciflora,** Willd. (Kth. l. c. p. 17, cum syn.)—C.P. 999.
HAB. Hotter parts of the island, in wet places.

Digitized by Google

CLXV. RESTIACEÆ.

1. ERIOCAULON, Linn.

(Nom. vulg. "Kok-mota.")

1. **E. setaceum,** Linn. (Kth. Enum. iii. p. 550, cum syn.)—*E. intermedium,* Körnicke, in Linnæa, xxvii.—C.P. 791 (794).
HAB. Hotter parts of the island, in marshy places.

2. **E. Wallichianum,** Mart. in Wall. Pl. Rar. iii. t. 249; Kth. l. c. p. 564, cum syn.—*E. longifolium,* N. ab Es., Kth. l. c. p. 567.—C.P. 220.
HAB. Not uncommon in the warmer parts of the island.

3. **E. sexangulare,** Linn. (Kth. l. c. p. 551, cum syn.)—*E. Thwaitesii,* Körnicke, l. c. (partim).—C.P. 795.
HAB. Central Province.

4. **E. truncatum,** Ham. (Kth. l. c. p. 555.)—*E. Thwaitesii,* Körn. l. c. (partim).—C.P. 790 (793).
HAB. Very common.

5. **E. Brownianum,** Mart. l. c. t. 248; Kth. l. c. p. 562.—C.P. 377, 378 (1001).
HAB. Central Province, up to an elevation of 7000 feet.

An extremely variable species, as regards the amount of pubescence, and the relative size of the leaves, peduncles, and capitula. The external sepals of the male flowers are more or less coherent.

6. **E. quinquangulare,** Linn. (Willd. Sp. Pl. i. p. 485; Kth. l. c. p. 556, cum syn.)—C.P. 792.
Var. β. *argenteum.*—*E. argenteum,* Mart. l. c.; Kth. l. c. p. 557.—C.P. 3562.
HAB. Very abundant on the borders of paddy-fields.

7. **E. luzulæfolium,** Mart. l. c. p. 28; Kth. l. c. p. 553.—An *E. trilobum,* Ham. in Herb. Wall.; Körn. l. c.?—C.P. 796.
HAB. Central Province, up to an elevation of 4000 feet.

8. **E. Wightianum,** Mart. l. c.; Kth. l. c. p. 563; Steud. Synops. p. 271.
Var. *capitulis* nigro-cinereis, parce pilosis.—C.P. 3382.
HAB. Ambagamowa District.

9. **E. cristatum,** Mart. l. c.—Var. *bracteis floralibus* denticulatis et longiuscule cuspidato-acuminatis.—C.P. 789.
HAB. Rambodde, in the Central Province, *Gardner.*

This may possibly be a distinct species. The flowers are monœcious, and the flower bracts are different in shape from those of the ordinary form of *E. cristatum;* but the two plants are so conformable in other respects, that I cannot venture to separate them.

10. **E. atratum,** Körn. l. c.—C.P. 61.
Var. β. *major.*—*E. caulescens,* H. f. and T. MSS.—C.P. 131.
HAB. Central Province, at an elevation of 5000 to 7000 feet.

Parce caulescens. *Folia* vaginis valde dilatatis. *Sepala exteriora* multum latiora quam in *E. cristato,* cui alioquin hæc species simillima est.

Digitized by Google

CLXVI. CYPERACEÆ.

1. CYPERUS, Linn.

* *Stylo indiviso; stigmate simplici.*

1. **C. Hookerianus,** Thw.—*Cyperus*, No. 21 (bis), Hook. f. and T. Herb. Ind. Orient.—C.P. 3221.

HAB. Galle.

Sarmentosus. *Folia* firma, plana, ad apicem scabra, 4–12 poll. longa. *Culmi* foliis subæquilongi, trigoni, glabri. *Involucrum* 3–4-phyllum, *capitulo* subgloboso ½-pollicari multoties longius. *Spiculæ* oblongæ, compressæ, sub-12-floræ. *Squamæ* (2 vel 3 inferiores majores vacuæ) arcte imbricatæ, oblongæ, mucronato-acutæ, nitidæ, rugulosæ, ochraceæ, nigro-castaneo plus minus tinctæ, 1¼ lin. longæ, carina scabridæ. *Stamina* 3. *Caryopsis* oblonga, rostrato-acuminata, subtrigona, glabra, castanea, basi longiuscule 3-callosa, pallida.

The undivided style and stigma, and the remarkable callosities at the base of the nut, well distinguish this from every other described species.

** *Stigmatibus* 2.

2. **C. pulvinatus,** N. and M. (N. ab Es. in Wight, Contr. p. 74, cum syn.)—*C. punctatus*, Roxb. Fl. Ind. i. p. 193. *C. patens*, Vahl, Enum. ii. p. 334; Kth. Enum. ii. p. 16.—C.P. 806.

HAB. Common in wet gravelly and sandy places.

3. **C. sanguinolentus,** Vahl, l. c. p. 351; N. ab Es. l. c. p. 75, cum syn.—C.P. 802.

HAB. Not uncommon in the Central Province.

4. **C. polystachyus,** Rottb. (haud Schlecht.) (Kth. l. c. p. 13, cum syn.; N. ab Es. l. c. cum syn.; Roxb. l. c.)—C.P. 800.

HAB. Very abundant.

5. **C. flavescens,** Linn. (Steud. Synop. p. 4.)—*C. capillaris*, Kœn.; N. ab Es. l. c. p. 76, cum syn. *C. Junghuhnii*, Miq. Fl. Ind. Bat. iii. p. 13.—C.P. 801.

HAB. A very common species. Dr. Hooker observes that *C. tortuosus*, Roxb., is nearly a state of it.

C. puncticulatus, Vahl, l. c. p. 348; Kth. l. c. p. 15.—*C. inundatus*, Roxb. l. c. p. 201 (haud R. Br.).—N. ab Es. l. c. p. 76, cum syn.—C.P. 3751 (3316 partim).

HAB. Warmer parts of the island.

My specimens are somewhat smaller than the ordinary form of this plant, and their flower-scales are slightly mucronate just below the apex.

7. **C. alopecuroides,** Rottb. (N. ab Es. l. c. (haud Roxb.); Kth. l. c. p. 19, cum syn.)—C.P. 3560.

HAB. Balticaloa District.

*** *Stigmatibus* 3.

8. **C. compressus,** Linn. (N. ab Es. l. c. cum syn.; Roxb. l. c. p. 194 (excl. syn. Pluk.); Kth. l. c. p. 23, cum syn.)—C.P. 812.

Var. *spiculis* angustis.—C.P. 807.

HAB. Very common in the warmer parts of the island.

9. **C. arenarius,** Retz, (N. ab Es. l. c. p. 77, cum syn.; Kth. l. c. p. 46, cum syn.)—C.P. 798.

HAB. Batticaloa, *Gardner*.

Digitized by Google

10. **C. conglomeratus,** Rottb. (Steud. Synops. p. 15.)—*C. leucocephalus,* Retz, Steud. l. c. p. 51; Kth. l. c. p. 97.—C.P. 808.
HAB. North of the island, *Gardner.*

11. **C. aristatus,** Rottb. (N. ab Es. l. c. p. 78, cum syn.)—*C. uncinatus,* R. Br. Prod. 215. *C. intricatus,* Schrad.; Kth. l. c. p. 103. *C. inflexus,* Muehl, in Willd. Herb.; Kth. l. c. p. 22. *C. angustifolius,* Ham.; N. ab Es. l. c. p. 79. *C. versicolor,* N. ab Es. l. c. p. 78.—C.P. 966.
HAB. Very abundant.

12. **C. castaneus,** Willd. (N. ab Es. l. c. p. 79, cum syn.; Kth. l. c. p. 21, cum syn.)—C.P. 803.
HAB. Common in gravelly places.

13. **C. Silhetensis,** N. ab Es. l. c. p. 79; Kth. l. c. p. 33.—C.P. 3558.
HAB. Batticaloa District.

Closely allied to *C. Haspan,* Linn., from which it appears to be principally distinguished by its denser panicle and more incurved flower-scales.

14. **C. Haspan,** Linn. (N. ab Es. l. c. p. 80, cum syn.; Kth. l. c. p. 34 cum syn.)—*C. tenuispica,* Steud. Synops. p. 11.—C.P. 799, 805, 965.
HAB. Very abundant throughout the island.

15. **C. pallidus,** Heyne? (N. ab Es. l. c. p. 79; Kth. l.c. p. 40.)—C.P. 3559.
HAB. Batticaloa District.

16. **C. articulatus,** Linn. (N. ab Es. l. c. p. 80, cum syn.; Kth. l. c. p. 53.)—*C. nudus,* Roxb. l. c. p. 187 (haud p. 209).—C.P. 3561.
HAB. Hotter parts of the island.

17. **C. rotundus,** Linn. (Roxb. l. c. p. 197; Kth. l. c. p. 58, cum syn.)—*C. hexastachyus,* Rottb.; N. ab Es. l. c. p. 81, cum syn. *C. tenuiflorus,* Rottb.; N. ab Es. l. c. p. 82. *C. pertenuis,* Roxb. l. c. p. 198. *C. bulbosus,* Vahl; N. ab Es. p. 81, cum syn.—C.P. 804, 3045.
HAB. Extremely abundant in cultivated ground, and a most troublesome weed. Nom. vulg. "Kallandooroo."

The aromatic tubers of this very variable species are much used as a medicine by the Cinghalese.

18. **C. Retzii,** N. ab Es. l. c. p. 82, cum syn.; Kth. l. c. p. 73.—C.P. 3750.
HAB. Central Province.

19. **C. procerus,** Roth. (N. ab Es. l. c. p. 83, cum syn.)—C.P. 3752 (3316 partim).
HAB. Balticaloa District.

20. **C. pennatus,** Lam. (Kth. l. c. p. 80.)—*C. canescens,* Vahl; N. ab Es. l. c. p. 84, cum syn.—C.P. 678.
HAB. Hotter parts of the island.

21. **C. exaltatus,** Retz, (N. ab Es. l. c. cum syn.; Kth. l. c. p. 70.)—*C. altus,* N. ab Es. l. c. cum syn.—C.P. 3040.
HAB. Common in the warmer parts of the island.

22. **C. Roxburghii,** N. ab Es. l. c. cum syn.; Kth. l. c. p. 99.—*C. elatus,* Roxb. l. c. p. 204 (excl. syn.).—C.P. 3041.

Digitized by Google

HAB. Hotter parts of the island, not common.

Antheræ connectivo longo acuto piloso terminatæ.

23. **C. xanthopus,** Steud. Syn. p. 36.—*C. infraapicalis,* N. ab Es. in Hb. Wt.—C.P. 3044.

HAB. Doombera District.

Culmus 3–4-pedalis vel ultra, triqueter, glaber, basi foliosus. *Umbella* decomposita. *Spiculæ* sub-8-floræ, in spicas oblongas subcylindricas 7–10 lin. longas dense aggregatæ. *Squamæ* parum distantes, oblongæ, subacutæ, infra apicem mucronatæ, pallide ochraceo-cinereæ, dorso rufo-pluristriatæ. *Caryopsis* oblonga, trigona, brevirostrata, minutissime punctulata, pallide fusca.

24. **C. dubius,** Rottb. (N. ab Es. l.c. p. 85, cum syn.)—*C. kyllingioides,* Vahl; Kth. l. c. p. 94.—C.P. 855, 2942.

HAB. Central Province, not very uncommon up to an elevation of 4000 feet.

25. **C. pilosus,** Vahl, Enum. ii. p. 354.—*C. obliquus,* N. ab Es. l. c. p. 86. *C. piptolepis,* Steud. Syn. p. 40. An *C. marginellus,* N. ab Es. l. c. p. 83?—C.P. 797.

HAB. Very common in the Central Province.

26. **C. Iria,** Linn. (N. ab Es. l. c. p. 87, cum syn.; Kth. l. c. p. 38, cum syn.)—C.P. 811.

HAB. Very abundant.

27. **C. difformis,** Linn. (N. ab Es. l. c. p. 88, cum syn.; Kth. l. c. p. 38.)—C.P. 3042.

HAB. Common in the warmer parts of the island.

28. **C. nigroviridis,** Thw.—*C. elegans,* Wall. Cat. (haud Linn.)—C.P. 2879.

HAB. Kornegalle.

Culmus tenuis, glaber, triqueter, 1–2-pedalis, basi foliosus. *Folia* latiuscula, culmo subæquilonga, margine scabra. *Umbella* composita, longe involucrata. *Spiculæ* laxifloræ, umbellatæ. *Squamæ* rotundatæ, mucronatæ, nervoso-striatæ, nigrofuscæ, margine membranacea fulvescentes. *Caryopsis* ovoidea, trigona, utrinque acuta, subglabra, nigra.

Resembling very much *C. elegans,* Linn., but distinguished at once by the very different shape of its fruit, which in *C. elegans* is much wider in proportion to its length, and is rounded at the apex.

29. **C. distans,** Linn. (N. ab Es. l. c. p. 88, cum syn.; Kth. l. c. p. 93.)—C.P. 810.

HAB. Very abundant.

30. **C. corymbosus,** Rottb. (Kth. l. c. p. 55, cum syn.)—*Papyrus corymbosus,* N. ab Es. l. c. p. 89.—C.P. 809.

HAB. Kornegalle.

31. **C. Pangorei,** Rottb. (Kth. l. c. p. 57, cum syn.)—*Papyrus Pangorei,* N. ab Es. l. c. p. 88.—C.P. 813.

HAB. Not uncommon in the warmer parts of the island.

32. **C. Neesii,** Kth. l. c. p. 101.—*C. elatus,* Linn. (partim). *Papyrus elatus,* N. ab Es. l. c.—C.P. 3043.

HAB. Caltura, *Moon.*

33. **C. dilutus,** Vahl, Enum. ii. p. 357; Kth. l. c. p. 92.—*Mariscus dilutus,* N. ab Es. l. c. p. 90.—C.P. 815.

HAB. Kornegalle, *Gardner.*

Digitized by Google

34. **C. umbellatus,** Benth. Flor. Hongk. p. 386.—*Mariscus umbellatus,* Vahl, l. c. p. 376. *M. cyperinus,* Vahl, l. c. p. 377. *M. paniceus,* Link? N. ab Es. l. c. p. 89, cum syn. *M. pictus,* N. ab Es. l. c. p. 90, cum syn.—C.P. 814, 816, 817, 2878.

HAB. Extremely abundant.

Planta valde variabilis. *Spiculæ* 1–4-floræ.

2. KYLLINGIA, Linn.

1. **K. monocephala,** Linn. (N. ab Es. in Wight, Cat. p. 91; Kth. Enum. ii. p. 129.)—C.P. 3753.

HAB. Very common amongst grass, in the warmer parts of the island.

Differs from the next species in its usually diandrous flowers, with their glumes whiter, and somewhat suddenly dilated above the middle.

2. **K. brevifolia,** Rottb. (N. ab Es. l. c. cum syn.; Kth. l. c. p. 130.) —C.P. 3755.

HAB. With the preceding species, but not so common.

3. **K. melanosperma,** N. ab Es. l. c.; Kth. l. c. p. 131.—C.P. 818, 2980.

HAB. Central Province, at an elevation of 4000 to 6000 feet.

4. **K. cylindrica,** N. ab Es. l. c. Var. β. *monostachya,* Kth. l. c. p. 133.—C.P. 3754.

5. **K. triceps,** Rottb. (N. ab Es. l. c.; Kth. l. c. cum syn.)—C.P. 3234.

HAB. Hot drier parts of the island.

3. REMIREA, Aubl.

1. **R. pedunculata,** R. Br. (Kth. Enum. ii. p. 139, cum syn.)—*R. Wightiana,* Wall. Cat. No. 3378; N. ab Es. in Wight, Contr. p. 92.—C.P. 3327.

HAB. Jaffna, *Gardner.*

4. PANDANOPHYLLUM, Hassk.

Steudel, Synops. p. 134. *Halostemma,* Wall. MSS.

Char. emend. Squamæ unifloræ. *Glumæ* 6, biseriales, plicatæ; 3 *exteriorum* unaquæque stamen includens eidemque opposita; 3 *interiorum* una (posterior) pistillum amplectens, duæ vacuæ. FLOR. MASC.: *Antheræ* lineares, subsessiles, longitudinaliter dehiscentes. *Ovarii rudimentum* stylo longo clavato acuto terminatum. FLOR. FŒM.: *Stamina sterilia* paleæformia. *Stylus* basi incrassatus. *Stigmata* 2 (Hassk.) 3 (in meis specimin.). *Caryopsis* ossea.

1. **P. Zeylanicum,** Thw.; *foliis* glabris, longissime setaceo-acuminatis, margine scabris; *caryopsi* obovoidea, lævi, brevi-stipitata.—C.P. 3029.

HAB. Banks of a stream, near Pittigalakanda in the Kokoole Corle, December, 1853.

Digitized by Google

Folia 3–4-pedalia, 6–7 lin. lata. *Culmi* plures, 3–9 poll. longi, basi vaginati. *Capitulum* plurifloruum, 6–7 lin. in diam. *Squamæ* ovatæ, striatæ, inferiores mucronatæ, semipollicares. *Glumæ* squama æquilongæ, lineari-lanceolatæ, acutæ, exteriores ad carinam scabræ. *Antheræ* 2 lin. longæ. *Caryopsis* albida, interne nigra, 2 lin. longa.

Hasskarl, in describing this genus as monandrous, must, I suspect, have taken the long clavate style of the male flower for an anther. The true anthers, 3 in number, which lie concealed, one within the fold of each of the exterior glumes of the flower, may easily escape observation, unless great care be taken in the dissection.

5. LEPIRONIA, Rich.

1. **L. mucronata,** Rich. in Pers. Syn. i. p. 70; Kth. Enum. p. 366.—*Chondrachne articulata,* R. Br.—C.P. 3228.

HAB. Caltura District.

Pistillum 18–24 paleis (6–8 exterioribus monandris, reliquis vacuis) lanceolatis acutis cinctum.

This genus is evidently closely allied to *Pandanophyllum*, the pistil in each being surrounded by a certain number of empty paleæ, and, outside these, by one or more series of monandrous paleæ. In *Pandanophyllum* the flower (or spikelet ?) is unisexual, either the pistil or the stamens being sterile or rudimentary, whilst in the present genus the flower (or spikelet ?) is hermaphrodite.

6. HYPOLYTRUM, Rich.

1. **H. latifolium,** Rich. in Pers. Syn. i. p. 70; Kth. Enum. ii. p. 271, cum syn.—*H. giganteum,* Wall. Cat. No. 3404; N. ab Es. in Wight, Contr. p. 93, cum syn. *H. trinervium,* Kth. l. c. p. 272.—C.P. 3, 219.

Var. *β. minor.*—*Spiculis squamis*que multo minoribus.

HAB. Common in dense forests in the southern and central parts of the island, up to an elevation of 3000 feet.

Var. *β.* Caltura.

Glumæ postice connatæ, sed facile disruptæ. *Caryopsis* glabra vel parum rugulosa, rarius costulata, ochraceo- vel nigro-fusca, endocarpio nigro.

2. **H. longirostre,** Thw.; *spiculis* corymboso-paniculatis; *squamis* firmis, nitidis, plus minus acutatis, mucronatis; *glumis* postice connatis, oblongis, subacutis, carinis scabris; *staminibus* 2; *caryopsi* rotundata, rugosa, parum compressa, styli basi dilatata longiuscule rostrata.—C.P. 3468.

HAB. Hinidoon Corle.

Caryopsis fusca, sæpe obscure costulata, ½ lin. longa, rostro parum longiore; endocarpio nigro.

A præcedente, cui valde similis, foliis angustioribus, squamis acutis majoribus firmioribusque et caryopsi longe rostrata satis differt.

3. **H. costatum,** Thw.; *spicis* capitato-congestis; *caryopsi* majuscula, ovata vel rotundata, acuta, longitudinaliter grosse 6–12-costata, externe spongiosa.—C.P. 3222.

HAB. Central Province, but exact locality not recorded.

Culmus triqueter, lævis. *Folia floralia* longiuscula, 8 lin. lata, trinervia, margine scabra. *Panicula* oblonga, dense compacta. *Caryopsis* fusco-nigra, 3 lin. in diam., interne albida, endocarpio separabili.

The only specimen I possess is not sufficiently perfect to enable me to draw up so complete a description as could be desired, of this interesting plant.

Digitized by Google

7. LIPOCARPHA, R. Br.

1. **L. argentea,** R. Br. (Kth. Enum. ii. p. 266, cum syn.)—*L. lævigata,* N. ab Es. in Wight, Contr. p. 92, cum syn.—C.P. 819.
Var. *bracteis* majoribus.—C.P. 3557.
HAB. Common up to an elevation of 3000 feet.

2. **L. sphacelata,** Kth. l. c. p. 267.—*L. triceps,* N. ab Es. l. c.—C.P. 3756.
HAB. Doombera District.

Capitulum 3–6-stachyum.

8. FUIRENA, Linn.

1. **F. ciliaris,** Roxb. Fl. Ind. i. p. 180; N. ab Es. in Wight, Contr. p. 93, cum syn.—C.P. 3038.
HAB. Very abundant in paddy-fields and wet grassy places, in the warmer parts of the island.

2. **F. glomerata,** Lam. (Vahl, Enum. ii. p. 386; Kth. Enum. ii. p. 184.)—*F. Rottbœllii,* N. ab Es. l. c. p. 94, cum syn.—C.P. 2748.
HAB. Similar places with the last.

3. **F. umbellata,** Rottb. (Kth. l. c. p. 185, cum syn.)—*F. pentagona,* W. et A.; N. ab Es. l. c. p. 93, cum syn.; Kth. l. c. cum syn.—C.P. 3229.
HAB. With the preceding and equally common.

4. **F. uncinata,** Wall. Cat. No. 3534 *d*; Kth. l. c. p. 184, cum syn. —C.P. 3230.
HAB. Similar places with the foregoing species.

9. ABILDGAARDIA, Vahl.

1. **A. monostachya,** Vahl, Enum. ii. p. 296; Kth. Enum. ii. p. 247. —*A. Rottbœlliana,* N. ab Es. in Wight, Contr. p. 95, cum syn.—C.P. 3231.
HAB. Not uncommon in the warmer parts of the island.

2. **A. tristachya,** Vahl, l. c. p. 297; Kth. l. c. p. 248, cum syn.—C.P. 852.
HAB. North of the island, *Gardner.*

3. **A. fulvescens,** Thw.—*Umbella* 3–4-radiata; *involucro* brevi; *spicis* planis, compressis, acutis, plurifloris, solitariis vel binis in radiis; *squamis* ovatis, acutis, pilosulis; *floribus* triandris; *caryopsi* trigona, subpyriformi, tuberculata.—C.P. 679.
HAB. Reigam Corle.

Cæspitosa, 1–1½-pedalis. *Folia* culmo breviora vel subæquilonga, lineari, obtusiuscula, mucronata, margine scabra, ½–1½ lin. lata. *Culmus* filiformis, striatus. *Caryopsis* nigro-fusca, umbonata, ⅓ lin. longa.

4. **A. cinnamometorum,** Thw.—*A. fusca,* N. ab Es. l. c.; Kth. l. c. p. 249.—*Fimbristylis Cinnamometorum,* Kth. l. c. p. 229. *Scirpus Cinnamometorum,* Vahl, l. c. p. 278.—C.P. 2752.
HAB. Not uncommon in wet grassy places.

Digitized by Google

10. FIMBRISTYLIS, Vahl.

* *Stigmatibus* 2.

1. **F. nutans,** Vahl, Enum. ii. p. 285; N. ab Es. in Wight, Contr. p. 96; Kth. Enum. ii. p. 221, cum syn.—C.P. 832.
HAB. Very common in the warmer parts of the island.

2. **F. acuminata,** Vahl, l. c.; N. ab Es. l. c.; Kth. l. c. cum syn.—*F. setacea*, Benth. in Hook. Journ. of Bot.—C.P. 2747.
HAB. Hotter parts of the island.

Closely allied to the preceding, but certainly distinct.

3. **F. polytrichoides,** R. Br.? (N. ab Es. l. c. cum syn.)—*Scirpus polytrichoides*, Retz; Vahl, l. c. p. 249. *Scirpus scaber*, Roxb. Fl. Ind. i. p. 220.
HAB. Ceylon, *Kœnig*.

4. **F. schœnoides,** Vahl, l. c. p. 286; N. ab Es. l. c. p. 97, cum syn.; Kth. l. c. p. 222, cum syn.—C.P. 833.
HAB. Not uncommon in the hotter parts of the island.

5. **F. diphylla,** Vahl, l. c. p. 289; N. ab Es. l. c. p. 100, cum syn.—*F. tomentosa*, Vahl, l. c. p. 290; N. ab Es. l. c. *F. Royeniana*, varr. *α* et *β*; N. ab Es. l. c.—C.P. 839, 840 (841 partim).
HAB. A very abundant plant.

Varies greatly in the amount of pubescence: the flowers are commonly diandrous, more rarely monandrous; I have not met with it with triandrous flowers.

6. **F. ovalis,** N. ab Es. l. c. p. 98, cum syn.—C.P. 3737 (841 partim).
HAB. Kornegalle District.

Certainly distinct from the preceding species, though bearing considerable external resemblance to the tomentose form of it.

7. **F. rigidula,** N. ab Es. l. c. p. 99; Steud. Synops. p. 116.—C.P. 3232.
HAB. Warmer parts of the island, not common.

8. **F. ferruginea,** Vahl, l. c. p. 291; N. ab Es. l. c. p. 97, cum syn.; Kth. l. c. p. 236.—C.P. 848.
HAB. Kokoole Corle, *Gardner*.

9. **F. argentea,** Vahl, l. c. p. 294; N. ab Es. l. c. p. 100, cum syn.; Kth. l. c. p. 223.—C.P. 2877.
HAB. Hotter parts of the island.

10. **F. pallescens,** N. ab Es. l. c. p. 101, cum syn.; Steud. Synops. p. 111.—*Scirpus pallescens*, Roxb. Fl. Ind. i. p. 229.—C.P. 3758.
HAB. Warmer parts of the island, not very common.

** *Stigmatibus* 3. *Trichelostylis.*

11. **F. Arnottii,** Thw.—*F. xyroides*, Arn. Cat. Hb. Wight, 2331 (haud *xyridis*, R. Br.)—C.P. 830.
HAB. Common on the borders of paddy-fields, etc.

Cæspitosa, aphylla. *Culmus* parum angularis, 6–18 poll. longus, basi vaginatus. *Spica* solitaria, erecta, rotundata. *Squamæ* arcte imbricatæ, obovatæ, obtusæ, inferiores parum majores. *Caryopsis* oblonga, subclavata, delicatule cancellata, stipitata, albida, stylo subæquilonga.

12. **F. miliacea,** Vahl, l. c. p. 287; Kth. l. c. p. 230.—*Trichelostylis*

Digitized by Google

miliacea, N. ab Es. l. c. p. 103, cum syn. *F. tetragona*, N. ab Es. l. c. p. 104, cum syn. *Scirpus tetragonus*, Roxb. l. c. p. 228.—C.P. 836.

HAB. Very abundant in paddy-fields and other wet places.

13. **F. globulosa,** Wall. (Kth. l. c. p. 231.)—*Trichelostylis globulosa*, N. ab Es. l. c. p. 105, cum syn.—C.P. 842.

HAB. Warmer parts of the island.

14. **F. quinquangularis,** Kth. l. c. p. 229, cum syn.—*Trichelostylis quinquangularis*, N. ab Es. l. c. p. 104, cum syn.—C.P. 838.

HAB. Not uncommon in the hotter parts of the island.

15. **F. insignis,** Thw.—*Culmo* filiformi, striato, apice parum compresso, glabro, basi folioso; *foliis* brevibus, firmis, curvatis, obtusis, mucronatis, glabris, margine scabris; *umbellæ* apertæ radiis circiter 6; *involucro* brevissimo; *spicis* subcylindricis, acutis, 1–2- vel 3-nis in radiis, intermedia sessili majore; *squamis* ovato-oblongis, subacutis, mucronatis; *floribus* triandris; *caryopsi* brevi-obcordata, trigona, sublævi; *stylo* lineari, triquetro, glabro; *stigmatibus* breviusculis.—C.P. 3317.

HAB. Between Negombo and Kornegalle.

Cæspitosa, 2-pedalis. *Spicæ* ½–1 poll. longæ, 1½ lin. latæ. *Squamæ* fusco-ferrugineæ, basi margineque pallidiores, 2 lin. longæ.

16. **F. complanata,** Link. (Kth. l. c. p. 228, cum syn.)—*Trichelostylis complanata*, N. ab Es. p. 103, cum syn.—C.P. 3220.

HAB. Ceylon, *Walker (in Herb. Hook.)*.

17. **F. chætorhiza,** Kth. l. c. p. 240.—*Trichelostylis chætorhiza*, N. ab Es. l. c. p. 106. *T. torta*, N. ab Es. l. c. p. 105.—C.P. 837, 970.

HAB. Extremely abundant amongst grass.

A very variable plant. I find the flowers always triandrous, and the characters of the fruit, as described by Nees, very constant.

18. **F. retusa,** Thw.; *culmo* filiformi, acute angulari, apicem versus scabrido, basi foliato; *foliis* anguste linearibus, obtusis, mucronatis; *umbella* composita, compacta, involucro subæquilongo; *spicis* glomeratis, sessilibus; *squamis* ovatis vel oblongis, retusis, dense imbricatis, pluriseriatis, muricato-punctulatis, ad apicem margine ciliatis; *floribus* monandris; *stylo* glabro; *caryopsi* late obovata, trigona, aspero-tuberculata.—C.P. 3760.

HAB. Near Galle.

Cæspitosa, 1–2-pedalis. *Squamæ* fusco-ferrugineæ. *Caryopsis* ochracea, ferrugineo tincta.

19. **F. Wightiana,** N. ab Es. l. c. p. 99.—C.P. 3759.

HAB. Trincomale, *Rev. S. O. Glenie.*

20. **F. salbundia,** Kth. l. c. p. 230, cum syn.—*Trichelostylis salbundia*, N. ab Es. l. c. p. 105, cum syn. *T. pentaptera*, N. ab Es. l. c. —C.P. 823, 843.

HAB. Newera Ellia, and other of the more elevated parts of the island.

21. **F. connectens,** Thw.—*Culmo* striato, versus apicem compresso scabroque, basi folioso; *foliis* anguste linearibus, culmo subæquilongis, glabris, margine scabris, abrupte acutis; *umbella* mediocri, decomposita, compacta, radiis scabris; *involucro* diphyllo, foliolis linearibus, acutis, scabris, umbella subæquilongis; *spicis* oblongis, acutis; *squamis*

Digitized by Google

2–3-chis, ovatis, subacutis, mucronulatis, opacis; *floribus* triandris; *caryopsi* obovoidea vel subpyriformi, acute trigona, nitida, sublævi; *stylo* glabro.—C.P. 2967.

HAB. Maturatta District.

Cæspitosa, 1–2-pedalis. *Folia* glauco-viridia, circiter 1 lin. lata. *Squamæ* fusco-castaneæ, carina scabra margineque pallidiores, longitudinaliter delicatule striatæ. *Caryopsis* albida vel pallide fulva.

Allied to *F. salbundia,* and might perhaps with propriety be placed with it, in the genus *Abildgaardia,* close to *A. cinnamometorum,* with which they have great affinity.

11. ISOLEPIS, R. Br.

1. **I. squarrosa,** R. et S. (Kth. Enum. ii. p. 202, cum syn.)—*Scirpus squarrosus,* Linn.; Roxb. Fl. Ind. i. p. 222.—C.P. 854.

HAB. North of the island, *Gardner.*

2. **I. articulata,** N. ab Es. in Wight's Contr. p. 108, cum syn. (Kth. l. c. p. 199, cum syn.)—*I. incurvatus,* N. ab Es. l. c. cum syn. *I. prolongata,* N. ab Es. l. c. *Scirpus articulatus,* Linn.; Roxb. l. c. p. 214. *S. incurvatus,* Roxb. l. c. *S. subarticulatus,* Roxb. l. c. p. 215.—C.P. 846.

HAB. Common in the hotter parts of the island.

3. **I. supina,** R. Br. (N. ab Es. l. c. p. 107, cum syn.; Kth. l. c. p. 196.)—*Scirpus supinus,* Linn.; Roxb. l. c. p. 217.—C.P. 3233.

HAB. Hotter parts of the island.

4. **I. trifida,** N. ab Es. l. c. p. 108. (Kth. l. c. p. 213.)—C.P. 851.

HAB. More elevated parts of the Central Province.

5. **I. gracilis,** N. ab Es. l. c. p. 109. (Kunth, l. c. p. 217.)—C.P. 834.

HAB. Common in the warmer parts of the island.

6. **I. barbata,** R. Br. (N. ab Es. l. c. cum syn.; Kth. l. c. p. 208.)—*Scirpus monander* et *S. antarcticus,* Roxb. l. c. (excl. syn.)—C.P. 829.

HAB. Not uncommon in the hotter parts of the island.

7. **I. pulchella,** Thw.; *spicis* terminalibus, capitato-congestis; *culmo* lævi, filiformi, striato, basi foliato; *foliis* brevibus, setaceis, canaliculatis, basi in vaginam apice barbatam dilatatis; *involucro* quam capitulum 2–3-plo longiore, basi barbato; *squamis* late obtuse carinatis, pilosulis; *floribus* triandris; *caryopsi* rotundata, trigona, minute tuberculata, brevi-stipitata.—C.P. 3761.

HAB. Trincomale, *Rev. S. O. Glenie.*

Cæspitosa, 3–6-pollicaris. *Squamæ* ferrugineo-aureæ, versus apicem carinæ pallide virides. *Caryopsis* pallida, nigro-apiculata.

8. **I. fluitans,** R. Br. (Kth. l. c. p. 188, cum syn.)—*Eleogiton fluitans,* Link. Hort. i. 284. *E. curvulus,* N. ab Es. l. c. p. 110.—C.P. 835 (2634).

HAB. Common in the more elevated parts of the Central Province.

9. **I. dipsacea,** R. et S. (Kth. l. c. p. 205, cum syn.)—*Echinolytrum dipsaceum,* Desv.; N. ab Es. l. c. p. 96. *Scirpus dipsaceus,* Rottb.—C.P. 668.

HAB. Warmer parts of the island.

Digitized by Google

12. SCIRPUS, Linn.

1. **S. mucronatus,** Linn. (Kth. Enum. ii. p. 161, cum syn.)—*S. triangulatus,* Roxb. Fl. Ind. i. p. 217; N. ab Es. in Wight's Contr. p. 111. *S. javanus,* N. ab Es. l. c. p. 112.—C.P. 41.
HAB. Very common.

2. **S. juncoides,** Roxb. l. c. p. 216; Kth. l. c. p. 160.—*S. junciformis,* N. ab Es. l. c. p. 112.—C.P. 850.
HAB. Abundant throughout the island.

3. **S. subcapitatus,** Thw.; aphyllus; *culmis* confertis, rigidis, teretibus, vaginatis; *vaginis* subulato-apiculatis, superiore multum longiore; *involucro* brevi, ovato, 5-nervio, subulato-apiculato; *spicis* 3 vel 4, oblongis, acutis, subcapitatis; *squamis* sub-4-seriatis, ovatis, membranaceis, carinatis, mucronatis; *staminibus* 3; *caryopsi* obovato-oblonga, trigona, lævi; *setis* 6, tenuibus, denique caryopsi multuplo longioribus.—C.P. 306.
HAB. Newera Ellia.

6–18-pollicaris. *Capitula* ochracea, ferrugineo tincta. *Stylus,* cum stigmatibus et setis, nigro-rufus. *Caryopsis* ferruginea.

4. **S. grossus,** Linn. (Kth. l. c. p. 167, cum syn.)—*Hymenochæte grossa,* N. ab Es. l. c. p. 110, cum syn.—C.P. 847.
HAB. Hotter parts of the island.

Mats are made by the Cinghalese from the culms of this species.

5. **S. pectinatus,** Roxb. l. c. p. 218.—*Malacochæte pectinata,* N. et M.; N. ab Es. l. c. cum syn. An *Scirpus subulatus,* Vahl, Enum. ii. p. 268? (conf. *S. littoralis,* Schrad.)—C.P. 831.
HAB. Caltura.

13. CHÆTOCYPERUS, N. ab Es.

1. **C. setaceus,** N. ab Es. (Steud. Synops. p. 73.)—*C. Limnocharis,* N. ab Es. in Wight's Contr. p. 96, cum syn. *Eleocharis chætaria,* Kth. Enum. ii. p. 140, cum syn. *Cyperus setaceus,* Retz.—C.P. 247.
HAB. Saffragam District.

14. ELEOCHARIS, R. Br.

1. **E. tetraquetra,** N. ab Es. in Wight's Contr. p. 113, cum syn.; Kth. Enum. ii. p. 150, cum syn.—C.P. 2397.
HAB. Rambodde in the Central Province, at an elevation of 4000 feet.

2. **E. ovata,** R. Br. (Kth. l. c. 151, cum syn.)—*E. congesta,* Don; Kth. l. c. p. 152, cum syn.—C.P. 2635.
HAB. More elevated parts of the Central Province.

Spicæ sæpe basi proliferæ. *Stigmata* 3. *Caryopsis* pyriformis, trigona, nitida, ochracea.

3. **E. capitata,** R. Br. (Kth. l. c. p. 150, cum syn.)—*Eleogenus capitatus,* N. ab Es. l. c. p. 112, cum syn.—C.P. 3039.
HAB. Saffragam District.

4. **E. fistulosa,** Schult. (Kth. l. c. p. 155, cum syn.)—*E. acutangula,*

Digitized by Google

N. ab Es. l. c. p. 114, cum syn. *Scirpus acutangulus*, Roxb. Fl. Ind. i. p. 213.—C.P. 3162 (3047).

HAB. Hotter parts of the island.

Stigmata (in meis specim.) 3.

5. **E. plantaginea,** R. Br. (Kth. l. c. p. 153, cum syn.)—*Limnocharis plantaginea*, N. ab Es. l. c. *Scirpus plantagineus*, Rottb.; Roxb. l. c. p. 212.—C.P. 3046.

HAB. South of the island.

6. **E. spiralis,** R. Br. (Kth. l. c. p. 155, cum syn.)—*Limnocharis spiralis*, P. de B.; N. ab Es. l. c. cum syn. *L. media*, N. ab Es. l. c. cum syn. *Scirpus spiralis*, Rottb., et *S. medius*, Roxb. l. c. pp. 212, 213.—C.P. 853.

HAB. Hotter parts of the island; Caltura, *Macrae*.

I can find no essential difference between Macrae's specimens, named *Limnocharis media* by Dr. Wight, and the ordinary *E. spiralis*, R. Br.

15. ARTHROSTYLIS, R. Br.

1. **A. filiformis,** Thw.; *culmis* confertis, filiformibus, longiusculis, glabris, sulcato-triquetris, basi vaginatis; *involucro* capitulo subæquilongo; *spicis* plurimis, 1–2-floris; *squamis* circiter 5, trinerviis (vel superioribus sub-5–7-nerviis) apice recurvis, aristato-subulatis; *floribus* 3-andris; *stylo* elongato; *stigmatibus* 2–3, elongatis; *caryopsi* obovata, trigona, obscure minute papillosa, apice vix umbonata.—C.P. 3469.

HAB. Carawitta Kanda, near Ratnapoora; and Dolosbage District.

Rhizoma repens. *Culmi* 2–3-pedales, *vaginis* ½–2-poll. longis, cuspidatis. *Capitulum* semipollicare. *Squamæ* ochraceæ, fulvo tinctæ. *Stylus*, cum basi dilatata, nigro-rufus. *Caryopsis* albida.

16. RHYNCHOSPORA, Vahl.

1. **R. laxa,** R. Br. (Kth. Enum. ii. p. 298, cum syn.)—An *R. triflora*, Vahl, Enum. ii. p. 231?—C.P. 677.

Var. *β. minor*.—*R. Chinensis*, N. et M.; N. ab Es. in Wight's Contr. p. 115.—C.P. 2396.

HAB. Var. *a*, south of the island; var. *β*, very abundant amongst grass at an elevation of 4000 to 6000 feet.

2. **R. aurea,** Vahl, l. c. p. 291; Kth. l. c. p. 293, cum syn.—C.P. 199.

HAB. Common in swampy places in the hotter parts of the island.

3. **R. Zeylanica,** Kth. l. c. p. 294.—*Cephaloschœnus Zeylanicus*, N. ab Es. in Wight's Contr. p. 115.—C.P. 3036.

HAB. Saffragam District.

Closely allied to and possibly a variety of *R. aurea*, but I am disposed to consider it distinct: the present plant is more glaucous, the leaves much narrower, the panicle fewer-flowered, and the rostrum of the fruit very different in shape. *R. articulata*, Schult., of which I have a specimen from Khasia given me by Dr. Hooker, is nearly allied to both the above-mentioned plants, but specifically distinct, I think.

4. **R. Wallichiana,** Kth. l. c. p. 289, cum syn.; Benth. Fl. Hongkong. p. 396, cum syn.—*R. Hænkei*, Pr.; Kth. l. c. p. 290. *Morisia Wallichii*, N. ab Es. l. c. p. 115. *Haplostylis Meyenii*, N. ab Es. l. c. —C.P. 2746.

HAB. Common amongst high grass, up to an elevation of 4000 feet.

Digitized by Google

17. CLADIUM, P. Browne.

1. **C. undulatum,** Thw.; *foliis* rigidis, angustis, acutissimis, margine involutis, scabriusculis, *culmo* subtrigono, sulcato, glabro, tenui, subæquilongis; *spicis* 1-floris, 2–3-nis, ad nodos ramorum undulato-flexuosorum paniculæ subsessilibus, bractea parva vaginante carinata aristato-acuminata suffultis; *squamis* lanceolatis, acutis, glabris; *caryopsi* rotundata, subtrigona, glabra, versus apicem rugulosa.—C.P. 3226.

HAB. South of the island.

1½–2½-pedalis. *Panicula* aperta, 4–8 poll. longa, ramulis interne sulcatis scabrisque. *Squamæ* ferrugineæ. *Flores* triandri. *Antheræ* mucronatæ. *Stylus* elongatus. *Caryopsis* ochracea, denique nigro-fusca.

18. BAUMEA, Gaud.; Kunth.

1. **B. crassa,** Thw.; *foliis* crassis, parum flaccidis, interne spongiosis, glabris, acutis, margine obtusiusculis, *culmo* complanato foliato subæquilongis; *spicis* pilosulis, trifloris (tertio flore terminali imperfecto), ad apices ramulorum paniculæ majusculæ glomerato-capitatis.—C.P. 845.

HAB. Ambagamowa District.

4–6-pedalis. *Folia* 3–4 lin. lata. *Panicula* pedalis vel ultra, parum aperta. *Bracteæ squamæ*que ovato-lanceolatæ, ferrugineæ. *Flores* triandri. *Stylus* (cum stigmatibus 3, rarius 2, longis) nigro-ferrugineus, *basi dilatata* albida, albido-villosa, *caryopsi* ovoideæ nitidæ ferrugineæ adnata.

19. SCLERIA, Linn.

1. **S. oryzoides,** Pr. (N. ab Es. in Wight's Contr. p. 116; Steud. Synops. p. 169.)—C.P. 828.

HAB. Very common in the south of the island.

2. **S. stipularis,** N. ab Es. (Steud. l. c. p. 171, cum syn.?)—"C.P. 3031," C.P. 3763.

HAB. Allagalla, in the Central Province, at an elevation of 3000 feet.

Vaginæ foliorum tri-alatæ, antice infra apicem pilis deflexis hispidæ, alis latiusculis superne ultra vaginam productis, dorsali longiore et ad apicem extremum libera. *Discus* trilobus, lobis lanceolatis acutissimis.

The present plant agrees very well with Nees's description, so far as it goes; but the locality he gives for his species (Surinam and Guyana) being so distant from this, renders it not unlikely that the Ceylon plant will prove to be distinct.

3. **S. Sumatrensis,** Retz. (N. ab Es. in Wight's Cat. p. 116; Kth. Enum. ii. p. 357; Steud. Synops. Cyperac. p. 171.)—C.P. 3783.

HAB. Ambagamowa District.

4. **S. elata,** Thw.; *culmis* elatis, triquetris; *foliis* longiusculis, valde acuminatis, margine scaberrimis; *vagina* exalata; *ligula* brevi, rotundata, parum pilosa; *paniculis* deltoideis, plurifloris; *bracteis* subulatis. basin versus subito dilatatis pilosisque; *caryopsi* ovoidea, apiculata; *hypogynio* mediocri subtrilobo vel triangulari, angulis rotundatis.—*Scleria,* No. 15, in Herb. Ind. Orient. Hook. f. et Thoms.

Var. *α*; *caryopsi* prominentim reticulato.—C.P. 3030, 825.

Var. *β*; *caryopsi* sublævi.—C.P. 3032.

HAB. Not uncommon up to an elevation of 5000 feet.

5. **S. androgyna,** N. ab Es. l. c. p. 117; Kth. l. c.; Steud. l. c. p. 168. —C.P. 3319.

Digitized by Google

HAB. Reigam Corle.

6. **S. lævis,** Retz. (N. ab Es. l. c.; Kth. l. c. p. 342; Steud. l. c. p. 169.)—C.P. 2745.
HAB. South of the island.

7. **S. tessellata,** Willd. (N. ab Es. l. c. p. 118, cum syn.; Kth. l. c. p. 343; Steud. l. c.)—C.P. 3034.
Var. β, *squamis* longioribus angustioribusque; *caryopsi* glabra et grossius cancellata quam in var. *a*.—*S. uliginosa,* Hochst. *S. parvula,* Steud. l. c. p. 174.—C.P. 3033.
HAB. Var. *a*, Ambagamowa and Saffragam Districts; var. β, near Galle.

Flores masc. 2–3-andri.

8. **S. hebecarpa,** N. ab Es. l. c.; Kth. l. c. p. 357; Steud. l. c.—C.P. 3318.
HAB. Warmer parts of the island.

Spicæ fœm. 1-floræ. *Flores masc.* 1-andri. *Caryopsis* hypogynio trilobo, lobis rotundatis, obtusis, subtus excavatis.

9. **S. lithosperma,** Willd. (haud N. ab Es.)—Kth. l. c. p. 349.—C.P. 826.
Var. β, *caryopsi* a basi fere ad apicem transversim rugoso-tuberculata, ferrugineo conspersa.—C.P. 2627.
HAB. Common in the hotter parts of the island.

Flores masc. monandri.

10. **S. pergracilis,** Kth. l. c. p. 354; Steud. l. c. p. 176.—*Hypoporum pergracile,* N. ab Es. l. c. p. 118.—C.P. 827.
HAB. South of the island, *Gardner*.

11. **S. Neesii,** Kth. l. c. p. 358; Steud. l. c. p. 175.—*Hypoporum capitatum,* N. ab Es. l. c.—C.P. 3037.
HAB. Common in the hotter parts of the island.

Spicæ masc.: *squamis* (in meis specim.) integris, lanceolatis, acutis, nec apice fimbriato-laceris; *floribus* triandris.

12. **S. junciformis.**—*Cylindropus junciformis,* N. ab Es.; Kth. l. c. p. 360; Steud. l. c. p. 180.—C.P. 3225.
HAB. Caltura, *Moon*.

There is only a single imperfect specimen of the present plant in this Herbarium, and I can discover nothing in its structure to justify its separation from *Scleria*.

20. DIPLACRUM, R. Br.

1. **D. caricinum,** R. Br. Prod. 241; Kth. Enum. ii. p. 360, cum syn.—*D. Zeylanicum,* N. ab Es. in Wight's Contr. p. 119.—C.P. 3035.
HAB. Common in the warmer parts of the island.

Spicula fœm. uniflora, sæpius brevi-stipitata; *squamis* oppositis, 2 (haud 4, ut N. ab Es. describ., cujus "squamæ inferiores" certe bracteæ sunt, una vel utraque spiculam masc. in axilla gerente). *Flores masc.* (in meis specim.) 1–2-andri.

21. CAREX, Linn.

* *Spica solitaria, androgyna.*

1. **C. rara,** Boott in Linn. Trans. xx. p. 139; Illustrations of the genus Carex, p. 44, t. 109.—C.P. 3080.

Digitized by Google

HAB. Newera Ellia and Horton Plains, at an elevation of 6000 feet.

** *Spicis 2 vel pluribus, androgynis.*

2. **C. nubigena,** Don, Fl. Nep. p. 42; N. ab Es. in Wight's Contr. p. 120, cum syn.; Kth. Enum. ii. p. 385; Boott, Illustr. Car. p. 1, t. 2.—C.P. 2395.

HAB. Newera Ellia and other of the more elevated parts of the Central Province.

3. **C. spicigera,** N. ab Es. l. c. p. 121; Kth. l. c. p. 512; Boott, l. c. p. 10, t. 24.—C.P. 822; et *forma minor,* C.P. 824; *forma perigyniis* angustioribus, subrostratis, C.P. 2629.

Var. β; *spicis* omnibus ad apicem culmi conglomeratis.—*C. rubella,* Boott.—C.P. 2966.

HAB. Very abundant in the Central Province, up to an elevation of 6000 feet; *forma minor,* Pedrotallagalla, *Gardner, M. Wichura.*

4. **C. leucantha,** Arn. MSS. (Boott, l. c. p. 10, t. 28.)—C.P. 2631.

HAB. Not very uncommon up to an elevation of 2000 feet.

5. **C. gracilis,** R. Br. Prod. 242; Boott, l. c. p. 59, t. 154, cum syn. —*C. lachnosperma,* Wall. N. ab Es. l. c. p. 124. *C. flexilis,* Don. *C. lenta,* Don; Spreng. Syst. iii. p. 811.—C.P. 2632.

HAB. Newera Ellia and Horton Plains.

6. **C. longipes,** Don, Fl. Nep. p. 43; N. ab Es. l. c.; Kth. l. c. p. 418.—C.P. 2749.

HAB. Maturatta and Hewahette Districts, rare.

7. **C. Bengalensis,** Roxb. Fl. Ind. iii. p. 572; Boott, l. c. p. 85, tt. 240, 243.—*C. valida,* N. ab Es. l. c. p. 123. An *C. condensata,* N. ab Es. l. c.?—C.P. 2628.

HAB. Common in the Central Province, up to an elevation of 4000 feet.

8. **C. cruciata,** Wahl. (Willd. Sp. Pl. iv. p. 248; N. ab Es. l. c.)—*C. filicina,* N. ab Es. l. c. *C. Lindleyana,* N. ab Es. l. c. *C. vacua,* Boott, Herb. Ind. Orient. Hook. f. and Thoms. (conf. *C. ramosa,* Schk., *C. meiogyna,* N. ab Es., *C. raphidocarpa,* N. ab Es., et *C. thyrsiflora,* Boott.).—C.P. 820, 3161.

HAB. Very abundant at an elevation of 3000 to 6000 feet.

An extremely variable plant, and, at a superficial glance, nothing can well look more distinct than the luxuriant form with spreading panicle, growing in damp shady places, and the smaller form with constricted panicle and larger flower-scales, growing on exposed downs; these forms, however, so merge into one another that I find it impossible to separate them into distinctly defined varieties.

9. **C. baccans,** N. ab Es. l. c. p. 122; Boott, l. c. p. 83, tt. 234–239; Kth. l. c. p. 513.—C.P. 821.

HAB. Common in the Central Province, up to an elevation of 6000 feet.

10. **C. Walkeri,** Arn. MSS. (Boott, l. c. p. 2, t. 4.)—C.P. 2751.

HAB. More elevated parts of the Central Province, not very common.

*** *Spicis unisexuis, vel intermediis androgynis, apicali mascula.*

11. **C. maculata,** Boott. (Linn. Trans. xx. p. 128; Illustr. Car. p. 9 t. 26.)—C.P. 2630.

Digitized by Google

HAB. Horton Plains, and in the more elevated parts of the Ambagamowa District.

12. **C. phacota,** Spr. (Syst. iii. p. 826; N. ab Es. l. c. p. 126; Boott, Illustr. Car. p. 63, t. 168, cum syn.)—C.P. 2965.
HAB. Not uncommon in the higher parts of the Central Province.

13. **C. Arnottiana,** Drejer, Symb. t. 5.—C.P. 3219.
HAB. Newera Ellia and other of the more elevated parts of the Central Province, common.

3–4-pedalis, *foliis* culmo subæquilongis. *Spicæ* cylindricæ, numerosæ, plerumque longiuscule pedunculatæ, intermediæ androgynæ. *Squamæ* oblongæ, subacutæ, fusco-purpureæ, carina cum apice cuspidato glabro viridi. *Stigmata* 2. *Perigynium* squama subæquilongum, ovoideum, compressum, fusco-ferrugineum, dimidio superiore scabriusculum, rostro brevi cylindrico truncato.

14. **C. lobulirostris,** Drejer, Symb. t. 14.—*C. Arnottiana,* Boott. Ann. Nat. Hist. xvii. p. 56.—C.P. 2633.
HAB. Horton Plains and Newera Ellia, at an elevation of 6000 to 7000 feet.

2–8-pedalis, *foliis* culmo longioribus. *Bracteæ* longæ, basi vaginantes. *Spicæ* 4–5, cylindricæ, contiguæ, bipollicares, terminalis mascula, reliquæ fœmineæ, inferior pedunculata. *Squamæ* lanceolatæ, nigro-sanguineæ, medio trinerviæ fusco-virides, aristato-acuminatæ, acumine scabro. *Stigmata* 3, brevia. *Perigynium* ampulliforme, nervosum, fuscum, rostro truncato demum parum fisso.

15. **C. Jackiana,** Boott, Illustr. Car. p. 9, t. 25.—*C. instabilis,* Boott, in Herb. Ind. Or. Hook. f. and Thoms.—C.P. 3198. Var. β; *breviculmis.*—C.P. 3781.
HAB. Horton Plains. Var. β. Ambagamowa District.

16. **C. breviculmis,** R. Br. (Prod. 242; Kth. l. c. p. 522.)—C.P. 2750.
HAB. Maturatta and Hewahette Districts, at an elevation of 4000 to 5000 feet.

1½–2-pedalis, *bracteis* longis, foliaceis. *Spicæ fœm.* 2–4, plus minus contiguæ, *squamis* late ovatis, acutis, brevicuspidatis, pallide ferrugineis carina viridi, quam perigynium tomentosum ovoideum rostratum multo brevioribus. *Spica masc. squamis* muticis.

The present plant agrees very well with Brown's description of his *C. breviculmis*, but not having an authentic specimen of the latter I cannot be quite certain of their identity. Can *C. Royleana,* N. ab Es., be a starved form of this species?

CLXVII. GRAMINEÆ.

1. LEERSIA, Soland.

1. **L. hexandra,** Sw. Fl. Ind. Occ. i. p. 131; Kunth, Enum. i. p. 6, —C.P. 877.
HAB. Very common up to an elevation of 4000 feet. Nom. vulg. "Layoo."

2. HYGRORYZA, N. ab Es.

1. **H. aristata,** N. ab Es. in Edinb. Phil. Journ. (1833) p. 380; Steud. Synops. Gram. p. 5.—*Potamochloa Retzii,* Griff. Notulæ, pars

Digitized by Google

3, p. 3, t. 140. *Leersia aristata,* Roxb. Fl. Ind. ii. p. 207.—C.P. 878.

HAB. Hotter parts of the island. Nom. vulg. "Gojabbā."

3. ORYZA, Linn.

1. **O. sativa,** Linn. (Kth. Enum. i. p. 7, cum syn.)—C.P. 2876.

HAB. Not uncommon in wet places, and apparently truly wild. Nom. vulg. "Goyang."

Numerous varieties of this plant are extensively cultivated by the Cinghalese.

4. LEPTASPIS, R. Br.

1. **L. urceolata,** Br. et Benn. in Plant. Jav. Rar. p. 23, t. 6.—*L. Zeylanica,* N. ab Es. MSS.; Steud. Syn. Gram. p. 8.—C.P. 972.

HAB. Shady places in the warmer parts of the island, not very uncommon.

FLOR. MASC.: (in meis specim.) *Ovarii* rudimento minuto. FLOR. FŒM.: *Stamina* abortiva 6, minutissima.

2. **L. cochleata,** Thw.; *foliis* oblongis vel obovato-oblongis, acuminatis, glabris; *glumis* rotundatis, cuspidato-acuminatis, persistentibus. FLOR. FŒM.: *palea inferiore* incurvata, valde inflata, 5-costata, uncinato-pilosa.—C.P. 896.

HAB. Forests of the Central Province, up to an elevation of 4000 feet.

Culmi 2–3-pedales, basi procumbentes radicantesque. *Folia* 4–6 poll. longa, 1¼–1¾ poll. lata, *vagina* 2–3 poll. longa, ad apicem, cum petiolo semipollicari interne, pilosa. *Paniculæ* rami verticillati, terni, ramulis alternis spiculam alteram masc. terminalem pedicellatam et alteram fœmin. sessilem minute bracteatam gerentibus. *Squamulæ* 2, breves, crassiusculæ, truncatæ. FLOR. MASC.: *palea inferior* rotundata, gradatim brevi-acuminata, *superior* linearis, apice bifida. *Ovarii rudimentum* stamin. abortiv. 6, minutissimis cinctnm. *Stylus* linearis, basi inflexus. *Stigmata* 3, plumosa, stylo parum breviora.

This species differs from the genus, as characterized by Brown, in the flowers having squamulæ.

5. COIX, Linn.

1. **C. Lachryma,** Linn. (Roxb. Fl. Ind. iii. p. 568; Kth. Enum. i. p. 20.)—C.P. 942.

HAB. Very common in cultivated ground. Nom. vulg. "Keekirrindee."

6. CHIONACHNE, R. Br.

1. **C. Kœnigii.**—*C. barbata,* Br. et Benn. in Pl. Jav. Rar. p. 18. *Coix Kœnigii,* Spr. Syst. i. p. 239. *C. barbata,* Roxb. Fl. Ind. iii. p. 569. *C. arundinacea,* Kœn.; Willd. Sp. Pl. iv. p. 203 (haud Lam.).—C.P. 3137.

HAB. Central Province, not very uncommon.

7. PASPALUM, Linn.

1. **P. scrobiculatum,** Linn. (Kth. Enum. i. p. 53, cum syn.; Roxb. Fl. Ind. i. p. 278.)—*P. Kora,* Willd.; Roxb. l. c. p. 279. *P. orbiculare,* Forst. Prod. vii.

Digitized by Google

Var. *a*, Kth. l. c.; *pedicellis* simplicibus, *glumis* 7-8-nerviis.—C.P. 863.

Var. *β*, Kth. l. c.; *pedicellis* simplicibus, *glumis* 3-nerviis.—C.P. 865.

Var. *γ*, Kth. l. c.; *pedicellis* in media rachi bipartitis, *glumis* 3-nerviis.—C.P. 2434.

HAB. Very abundant; var. *a* is cultivated by the Cinghalese. Nom. vulg. "Ammoo."

2. **P. Royleanum,** N. ab Es. MSS.

Var. *β*; *gluma* inferiore nulla.—C.P. 859.

HAB. Very common on the borders of paddy-fields.

3. **P. filiculme,** N. ab Es. MSS.—An *P. bifarium*, Edgew. in Journ. As. Soc. (1852) p. 187; Steud. Syn. Gram. p. 32? *Milium filiforme*, Roxb. l. c. p. 314.—C.P. 860 (2573).

HAB. Not uncommon in the Central Province.

8. ERIOCHLOA, Humb. et Kth.

1. **E. annulata,** Kth. Enum. i. p. 73; Benth. Flor. Hongk. p. 409.—*Milium ramosum*, Roxb. Fl. Ind. i. p. 315.—C.P. 3323.

HAB. Hotter parts of the island.

9. PANICUM, Linn.

1. **P. sanguinale,** Linn. (Kth. Enum. i. p. 82, cum syn.) Var. *β*; australe.—*P. australe*, Spr.; Kth. l. c. p. 85, cum syn. *P. Ægyptiacum*, Retz; Kth. l. c. p. 83, cum syn.—C.P. 856, 857, 861.

HAB. Extremely abundant.

2. **P. ciliare,** Retz. (Kth. l. c. p. 82, cum syn.).—*P. Neesii*, Kth. l. c. p. 84.—C.P. 862.

HAB. Common in sandy places.

3. **P. Wallichianum,** W. U. (Steud. Synops. Gram. p. 41.)—C.P. 3249.

HAB. More elevated parts of the Central Province.

4. **P. Helopus,** Trin. (Steud. l. c. p. 57.)—*Urochloa pubescens*, Kth. l. c. p. 74, cum syn.—Var. *β*; spiculis glabris, Munro, MSS.—C.P. 3244.

HAB. South of the island.

5. **P. Javanicum,** Poir. (Steud. l. c. p. 61.)—*Urochloa panicoides*, Beauv.; Kth. l. c. cum syn.—C.P. 858.

HAB. Common in the hotter parts of the island.

6. **P. semialatum,** R. Br. i. 192.—*Urochloa semialata*, Kth. l. c.—C.P. 3239.

HAB. Oova District, up to an elevation of 5000 feet.

7. **P. cimicinum,** Retz, Obs. iii. p. 9.—*Urochloa cimicina*, Kth. l. c. cum syn.—C.P. 911.

HAB. Very abundant.

8. **P. Burmanni,** Retz, Obs. iii. p. 10; Steud. l. c. p. 44, cum syn.—*Oplismenus Burmanni*, Beauv.; Kth. l. c. p. 139. Var. spiculis glabris.—C.P. 3683.

Digitized by Google

HAB. Central Province, under the shade of trees.

9. **P. compositum,** Linn.—*Oplismenus compositus,* R. and S.; Kth. l. c. p. 141, cum syn.—C.P. 913.
HAB. Common throughout the island.

An extremely variable species, some examples being nearly glabrous, and others densely pubescent.

10. **P. Crus-galli,** Linn.—*Oplismenus Crus-galli,* Kth. l. c. p. 143, cum. syn. *P. stagninum,* Kœn. in Willd. Sp. Pl. i. p. 337. *Oplism. stagninus,* Kth. l. c. p. 144, cum syn.—C.P. 900, 3237.
Var. β; *minor.—P. Colonum,* Linn. *Oplism. Colonus,* H. and K.; Kth. l. c. p. 142, cum syn.—C.P. 901.
HAB. Very common in the hotter parts of the island.

11. **P. fluitans,** Retz. (Willd. Sp. Pl. i. p. 338; Roxb. Fl. Ind. i. p. 293; Kth. l. c. p. 78.)—*P. affine,* N. ab Es.—C.P. 864, 897 (898).
HAB. Abundant in wet places in the hotter parts of the island.

12. **P. brizoides,** Linn. (Jacq. Ecl. i. t. 2; Kth. l. c. cum syn.)—*P. flavidum,* Retz; Kth. l. c. cum syn.—C.P. 902.
HAB. Very common in the warmer parts of the island.

13. **P. cruciforme,** Sibth. (Kth. l. c. p. 78.)—*P. Caucasicum,* Trin. *P. Wightii,* N. ab Es.; Steud. l. c. p. 58.—C.P. 903.
HAB. Not uncommon in cultivated ground.

14. **P. distachyum,** Linn. (Kth. l. c. p. 91, cum syn.)—C.P. 904.
HAB. Very abundant.

15. **P. prostratum,** Lam. (Kth. l. c. p. 89, cum syn.; Steud. l. c. p. 62, cum syn.)—C.P. 905. Forma major, C.P. 3236.
HAB. Common in the hotter parts of the island.

16. **P. coccospermum,** Steud. l. c. p. 62.—*P. vestitum,* N. ab Es. (haud Kth.).—C.P. 3241.
HAB. Central Province, up to an elevation of 6000 feet.

17. **P. uncinatum,** Raddi. (Trin. Ic. t. 216; Steud. l. c. p. 60.)—*Echinolæna? polystachya,* H. and K.; Kth. l. c. p. 172, cum syn.—C.P. 710.
HAB. Common in the Central Province in damp, shady places.

18. **P. ovalifolium,** Poir. (Kth. l. c. p. 113, cum syn.; Benth. Flor. Hongk. p. 413.)—C.P. 889.
HAB. Common in the warmer parts of the island.

Rhachis paniculæ plus minus patentim longe pilosa, *floribus apicalibus* longe albido-villosi.

19. **P. trigonum,** Retz, Obs. iii. p. 9; Willd. Sp. Pl. i. p. 352.—*P. radicans,* Retz, iv. p. 18; Willd. l. c. p. 354. *P. pilipes,* N. ab Es. —C.P. 100, 886, 887, 888, 891 (709).
HAB. Very abundant throughout the island.

An extremely variable species as regards its size and hairiness. All the forms have the flat callous spot at the apex of the inferior palea of the fertile flower.

20. **P. Petiverii,** Trin. (N. ab Es. in Mart. Bras. ii. p. 111; Kth. l. c. p. 91, cum syn.)—C.P. 895.
HAB. Damboul, *Gardner.*

21. **P. Gardneri,** Thw.; culmis ramosis, basi repentibus, radicanti-

Digitized by Google

bus; *foliis* lanceolatis, acuminatis, basi rotundatis, subcordatis; *panicula* aperta; *spiculis* majusculis, solitariis, longe pedicellatis; *glumis* ovato-lanceolatis, acutis, *inferiore* 5-nervia, parum breviore, *superiore* 7-nervia; *flor. ster.* bipaleaceo, *palea inferiore* gluma superiore conformi; *flor. hermaphr.* obtuso, eadem parum breviore.—C.P. 894.

HAB. Forests of the Central Province, at an elevation of 4000 to 6000 feet.

Tota planta villosula vel subglabra, sæpius purpurascens. *Culmi* ½–2-pedales. *Folia* 1½–5 poll. longa, 4–10 lin. lata, *vagina* ad marginem superne villosa, *ligula* brevi, erosa. *Panicula* 3–6 poll. longa. *Spiculæ* 1½–2 lin. longæ.

This species bears a very great general resemblance to *Isachne Walkeri*, W. et A., but is quite distinct from it. The much larger spikelets of the present distinguish it at once from *P. montanum*, Roxb.

22. **P. montanum,** Roxb. Fl. Ind. i. p. 313; Kth. l. c. p. 126; Benth. Flor. Hongk. p. 412.—*P. Courtallense,* N. ab Es.; Steud. l. c. p. 83. *P. euchroum,* Steud. l. c. p. 98, cum syn.—C.P. 892.

HAB. Central Province, not very common.

23. **P. antidotale,** Retz, Obs. iv. p. 17; Kth. l. c. p. 125; Steud. l. c. p. 77.—C.P. 971.

HAB. Hotter parts of the island.

Used medicinally by the Cinghalese.

24. **P. plicatum,** Lam. (Kth. l. c. p. 94.)—*P. Nepalense,* Spr.; Kth. l. c. *P. plicatum, P. nervosum,* et *P. costatum,* Roxb. Fl. Ind. pp. 311, 312. *P. neurodes,* Schultz.—C.P. 890.

HAB. Not uncommon up to an elevation of 2000 feet.

25. **P. miliaceum,** Linn. (Roxb. l. c. p. 310; Kth. l. c. p. 104.)—*P. miliare,* Lam. (Roxb. l. c. p. 309; Kth. l. c.)—C.P. 882, 893.

HAB. Very common. Nom. vulg. "Mainairee."

26. **P. psilopodium,** Trin. (Kth. l. c. p. 100, cum syn.)—C.P. 236. (An *P. miliacei* var.? Hook. f.)

HAB. Equally common with the preceding, and also cultivated by the Cinghalese under the same name.

27. **P. repens,** Linn. (Kth. l. c. p. 103, cum syn.)—*C. paludosum,* Roxb. l. c. p. 307. *P. ischæmoides,* Retz, Obs. 4, 17.—C.P. 883 (3049).

HAB. Very abundant. Nom. vulg. "Attora."

Much valued by the Cinghalese as a good fodder for cattle, but a troublesome weed in gardens.

28. **P. humile,** N. ab Es. (Steud. l. c. p. 84.)—C.P. 3243.

HAB. South of the island.

29. **P. Leptochloa,** N. ab Es. (Steud. l. c. p. 62.)—C.P. 918.

HAB. Not uncommon up to an elevation of 2000 feet.

30. **P. nodosum,** Kth. l. c. p. 97, cum syn.; Benth. Flor. Hongk. p. 412, cum syn.—*P. Arnottianum,* N. ab Es.; Steud. l. c. p. 59.—C.P. 964.

HAB. Common in damp shady places in the warmer parts of the island.

31. **P. curvatum,** Linn. (Steud. l. c. p. 67, vix Roxb. Fl. Ind. p. 286.)—C.P. 3240.

HAB. Hotter parts of the island.

Gluma superior basi saccata.

Digitized by Google

32. **P. auritum**, Presl, N. ab Es. (Kth. l. c. p. 113.)—C.P. 3242.
HAB. Saffragam District, at no great elevation.

33. **P. Myurus**, Lam. (Kth. l. c. p. 86, cum syn.)—*P. serrulatum*, Roxb. l. c. p. 307.—C.P. 3238.
HAB. In hotter places in the hotter parts of the island.

I can find no sufficient specific difference between the Ceylon plant and a specimen of *P. Myrus*, from Guiana.

34. **P. interruptum**, Willd. (Kth. l. c. p. 87, cum syn.; Roxb. l. c. p. 289.)—C.P. 910.

HAB. Common in wet places in the warmer parts of the island.

35. **P. Indicum**, Linn. (Kth. l. c. p. 133; Benth. Flor. Hongk. p. 413, cum syn.)—*P. angustum*, Trin., et *P. contractum*, N. ab Es.; Steud. l. c. p. 84.—C.P. 885, 908, 909.
HAB. A very abundant species.

36. **P. glaucum**, Linn.—*Setaria glauca*, Beauv.; Kth. l. c. p. 149, cum syn.—C.P. 907.
HAB. Very common throughout the island. Nom. vulg. "Kāooloo."

37. **P. intermedium**, Rottb. Nov. Sp. p. 47.—*Setaria intermedia*, R. S.; Kth. l. c. p. 150.—C.P. 906.
HAB. Not uncommon in damp, shady places.

38. **P. verticillatum**, Linn.—*Setaria verticillata*, Beauv.; Kth. l. c. p. 152, cum syn.—C.P. 3246.
HAB. South of the island, apparently not very common.

Panicum jumentorum, Pers., and *P. barbinode*, Trin., are largely cultivated as fodder for horses and cattle. *P. italicum*, Linn., is cultivated by the natives as a food grain, as is also *Penicillaria cylindrica*.

10. ICHNANTHUS, Beauv.

1. **I. pallens**, Munro. (Benth. Fl. Hongk. p. 414, cum syn.)—*Panicum pallens*, Sw.; Kth. Enum. i. p. 89, cum syn.—C.P. 2755.
HAB. Deltotte, in the Central Province, at an elevation of 4000 feet.

11. STENOTAPHRUM, Trin.

1. **S. complanatum**, Schr. (Kth. Enum. i. p. 137, cum syn.)—*Rottbœllia complanata*, Sw.—*Panicum dimidiatum*, Linn.; Roxb. Fl. Ind. i. p. 287.—C.P. 912.
HAB. Not uncommon in the hot, drier parts of the island.

12. ISACHNE, R. Br.

1. **I. Walkeri**, W. et A. (Steud. Synops. Gram. p. 97.)—C.P. 282.
HAB. Not very uncommon in forests of the Central Province.

2. **I. australis**, R. Br. (Prod. 196; Kth. Enum. i. p. 136; Benth. Fl. Hongk. p. 414, cum syn.)—*I. miliacea*, Rottb. Nov. Sp. p. 58. *Panicum atrovirens*, Trin.; Kth. l. c. p. 127. *P. Batavicum* et *P. Benjamini*, Steud. l. c. p. 96.—C.P. 880.
Var. β. *multiflora;* elatior; *panicula* majore, multiflora; *spiculis*

Digitized by Google

minoribus, glabris; *flore sterili* quam *hermaphr*. fere duplo longiore.—C.P. 3671.—Forsan species distincta.

HAB. Very abundant. Var. β. Oova District, at an elevation of 5000 feet.

3. **I. Kunthiana,** W. et A. (Steud. l. c. p. 96.)—*I. Neesiana*, Herb. Arn. *Panicum cuspidigluma*, Steud. l. c.—C.P. 881 (314).

HAB. More elevated parts of the Central Province.

Glumæ subrostrato-acuminatæ, glabræ vel versus apicem rigide pilosæ, floribus inter se æquilongis longiores.

A variable plant as regards size of the leaves and amount of pubescence. Possibly a variety only of the preceding species, which it greatly resembles.

4. **I. pulchella,** Roth, Nov. Sp. p. 58; Benth. Fl. Hongk. p. 414.—*Panicum Malaccense*, Trin.; Kth. l. c. p. 113. *Grayia elegans*, N. ab Es.; Steud. l. c. p. 119, cum syn.—C.P. 879.

HAB. Hantani, *Macrae;* Reigam Corle.

13. SPINIFEX, Linn.

1. **S. squarrosus,** Linn. (Kth. Enum. i. p. 175, cum syn.)—C.P. 947.

HAB. Common on the sand of the sea-coast.

14. THOUAREA, Pers.

1. **T. sarmentosa,** Pers. Syn. i. p. 110. (Kth. Enum. i. p. 174; Benth. Fl. Hongk. p. 415.)—C.P. 3260.

HAB. Sea-coast near Tangalle.

15. TRACHYS, Pers.

1. **T. mucronata,** Pers. Syn. i. p. 85. (Kth. Enum. i. p. 168, cum syn.)—*Panicum squarrosum*, Retz; Willd.; Roxb. Pl. Cor. t. 206; Roxb. Fl. Ind. i. p. 288.—C.P. 3262.

HAB. Jaffna, *Gardner*.

16. LAPPAGO, Schreb.

1. **L. racemosa,** Willd. (Kth. Enum. i. p. 170, cum syn.)—C.P. 3682.

HAB. Trincomale, *Rev. S. O. Glenie*.

17. ARUNDINELLA, Raddi.

1. **A. nervosa,** N. ab Es. (Steud. Synops. Gram. p. 115.)—*A. agrostoides*, Trin.; Steud. l. c. p. 116. *Holcus nervosus*, Roxb. Fl. Ind. i. p. 318.—C.P. 919.

HAB. Common in the Central Province, up to an elevation of 5000 feet.

2. **A. villosa,** W. et A. (Steud. l. c. p. 115.)—C.P. 960.

HAB. More elevated parts of the Central Province.

Culmi basi dense albido-tomentosi.

3. **A. avenacea,** Munro, MSS.—C.P. 3471.

HAB. Saffragam District, at no great elevation.

Culmi debiles, ramosi, radicantes. *Folia* parva, ovato-lanceolata, sparse pilosula,

Digitized by Google

dimidio inferiore distanter rigide ciliata, basi cordata, amplexicaulia. *Panicula* pollicaris, compacta. *Glumæ* lanceolatæ, apice setaceæ, inferior superne hispida. *Flos hermaphr.* pilosus, arista valida, complanata, torta, supra medium attenuata munitus.

18. GARNOTIA, Brongn.

Miquelia, N. ab Es.; *Berghausia*, Endl.

1. **G. stricta,** Brongn. (Benth. Fl. Hongk. p. 416, cum syn.)—*Berghausia mutica*, Munro, in Proc. Am. Acad. 4, p. 362.—C.P. 2968.
HAB. More elevated parts of the Central Province.

Much used for thatching.

2. **G. scoparia.**—*Berghausia scoparia*, Munro.—C.P. 943.
HAB. Hotter parts of the island, not uncommon.

Culmi 2–4-pedales, erecti. *Folia* angusta, *vaginis* latis, distichis, margine longe sericeo-pilosis. *Panicula* densa, 1–2-pedalis, ramis plurimis, longiusculis, suberectis. *Spiculæ* 1½ lin. longæ, basi pilis brevibus paucis cinctæ. *Gluma* anguste lanceolata, setaceo-acuminata, scabriuscula. *Palea inferior flor. hermaphr.* acuta, longe aristata.

3. **G. fuscata,** Thw.; *culmis* tenuibus, basi repentibus, ramosis, radicantibus, nodis glabris; *foliis* firmis, brevibus, lineari-lanceolatis, sparsissime longiuscule pilosis, vagina glabra apice pilosa; *panicula* parva, pauciflora; *pedicellis* apice piliferis; *gluma* subglabra, lanceolata, apice longiuscule setacea; *palea inferiore flor. hermaphr.* longe aristata.—C.P. 2756.
HAB. Saffragam District, at an elevation of 4000 feet.

Culmi 1–2-pedales. *Folia* 1–2 poll. longa, circiter 2 lin. lata.

4. **G. Courtallensis.**—*Miquelia Courtallensis*, Arn. and N. ab Es.; Steud. Synops. Gram. p. 119.—C.P. 454.
HAB. Central Province, at an elevation of 4000 feet.

Tota planta pallida vel plus minus nigrescens. *Culmi* ½–2-pedales. *Folia* pilosa vel glabra, 1–4 poll. longa, 1–3 lin. lata. *Spiculæ* 1½ lin. longæ. *Gluma* pilosa, acuta nec setacea.

5. **G. micrantha,** Thw.; *culmis* tenuibus, basi repentibus, radicantibus, nodis pilosis; *foliis* lineari-lanceolatis, valde acuminatis, breve pilosulis vel subglabris, vagina apice pilosa; *panicula* elongata, ramis capillaceis, scabris; *pedicellis* ad apicem parcissime piliferis; *spiculis* minutis, aliis aristatis, aliis muticis, vel omnino muticis; *gluma* scabra, acuta, apice setacea.—C.P. 944, 945.
HAB. Central Province, at an elevation of 2000 to 4000 feet.

Culmi 1–2½-pedales. *Folia* 3–8 poll. longa, 2–4 lin. lata. *Panicula* sæpe pedalis. *Spiculæ* 1 lin. longæ.

In general appearance very like *G. adscendens*, Munro, but the spikelets of the present plant are much smaller, and with scarcely a trace of the circle of hairs at their base.

19. OROPETIUM, Trin.

1. **O. Thomæum,** Trin. (Kth. Enum. i. p. 464, cum syn.)—*Rottbœllia Thomæa*, Willd.; Roxb. Pl. Cor. ii. t. 133.—C.P. 872.
HAB. Bintenne Tank, *Gardner*.

20. HEMARTHRIA, R. Br.

1. **H. compressa,** R. Br. (Kth. Enum. i. p. 465, cum syn.)—*Rott-*

Digitized by Google

bœllia compressa, Linn.; Roxb. Pl. Cor. ii. t. 156. *H. fasciculata*, Kth. l. c.—c.p. 3254.

HAB. Warmer parts of the island, not uncommon.

21. MNESITHEA, Kth.

1. **M. lævis,** Kth. Enum. i. p. 466, cum syn.—*Rottbœllia lævis*, Retz; Willd. Sp. Pl. i. p. 465.—c.p. 873.

HAB. Hotter parts of the island.

22. ROTTBŒLLIA, Linn.; R. Br.

1. **R. exaltata,** Linn. (Kth. Enum. i. p. 466, cum syn.)—c.p. 2386.

HAB. Common in the hotter parts of the island.

2. **R. nigrescens,** Thw.; *culmis* suberectis, sæpe elongatis, nodis glabris; *foliis* lineari-lanceolatis, acuminatis, basi late subcordatis ciliatisque; *ligula* rotundata, lacerato-ciliata; *spicæ* axillares terminalesque, solitariæ vel binæ; *gluma exteriore spiculæ sessilis* ovata, rigida, tessellato-punctata, apice membranaceo-auriculata; *spicula pedunculata* parum breviore, epunctata, biflora, flore altero masculo, altero neutro.—c.p. 867.

HAB. Central Province, at an elevation of 4000 feet.

Siccitate nigrescens. *Folia* 4–8 poll. longa, 4–7 lin. lata, pilosa vel glabra, margine scabra. *Spicæ* 2–3-pollicares. *Spiculæ* 1½ lin. longæ.

Allied to *R. striata*, N. ab Es., but the pedicellate spikelet of the present species is much more developed, and the outer glume of the sessile one is wider and more entirely tessellated.

23. MANISURIS, Linn.

1. **M. granularis,** Sw. (Kth. Enum. i. p. 469, cum syn.; Roxb. Pl. Cor. ii. p. 118.)—c.p. 81.

HAB. Common in the hot, drier parts of the island.

24. APLUDA, Linn.

1. **A. aristata,** Linn. (Kth. Enum. i. p. 516, cum syn.; Steud. Syn. Gram. p. 403, cum syn; Roxb. Fl. Ind. i. p. 324.)—*A. rostrata*, N. ab Es.; Steud. l. c.—c.p. 59, 3165, 3166.

HAB. Very abundant up to an elevation of 4000 feet.

25. ISCHÆMUM, Linn.

1. **I. muticum,** Linn. (Kth. Enum. i. p. 512, cum syn.)—c.p. 868, 3048.

HAB. Common in the hotter parts of the island.

2. **I. rugosum,** Salisb. (Willd. Sp. Pl. iv. p. 940; Gærtn. de Fruct. iii. p. 2, t. 181.)—*I. segetum*, Trin.; Steud. Synops. Gram. p. 376, cum syn. *Andropogon Tong-dong*, Steud. l. c. p. 375, cum syn.—c.p. 870.

HAB. Hotter parts of the island.

3. **I. barbatum,** Retz. (Willd. l. c.; Kth. l. c. p. 513, cum syn.; Benth. Fl. Hongk. p. 425.)—*Meoschium lodiculare*, N. ab Es. *M. Neesianum*, Arn., et *M. Meyenianum*, N. ab Es.; Steud. l. c. p. 375.—c.p. 700, 869, 994.

Digitized by Google

HAB. South of the island.

Spiculæ subglabræ vel plus minus pilosæ.

A coarser plant than the preceding, with the sessile spiculæ narrower in proportion to their length, and less regularly rugose. The two are, however, very closely allied.

4. **I. semisagittatum,** Roxb. Fl. Ind. i. p. 320; Steud. l. c. p. 376. —C.P. 2625.

HAB. Ambagamowa District.

Folia (in meis specimin.) tuberculata, pilosa. *Spicul. sess.* gluma inferior late 3-rugosa. *Spicul. pedicell.* pedicellus gluma inferiore plana striata parum brevior.

5. **I. conjugatum,** Roxb. Fl. Ind. i. p. 321; Kth. l. c. 513.—*Andropogon cordatifolius,* Steud. l. c. p. 376.—C.P. 3263.

HAB. Colombo, *Mr. W. Ferguson.*

6. **I. pectinatum,** Trin. (Steud. l. c. p. 369, cum syn.)—*Andropogon falcatus,* Steud. l. c.—C.P. 3322.

HAB. Hotter parts of the island, in wet ground.

7. **I. nervosum.**—*Hologamium nervosum,* N. ab Es. in Edinb. Phil. Journ. anno 1831, p. 185. *Andropogon nervosus,* Rottb.; Steud. l. c. p. 370. An *Andropogon striatus,* Klein, in Willd. Sp. Pl. iv. p. 903? —C.P. 3138.

HAB. Oodoopusalawa in the Central Province, at an elevation of 3000 to 4000 feet.

26. SPODIOPOGON, Trin.

1. **S. obliquivalvis,** N. ab Es. in Pl. Meyen. 185; Benth. Fl. Hongk. p. 426, cum syn.—*Andropogon malacophyllus,* Hochs.; Steud. Synops. Gram. p. 372. *A. Macræi,* Steud. l. c. p. 377, cum syn. *A. Blumei* et *A. bifidus,* Steud. l. c. p. 373. An *Ischæmum geniculatum* et *I. tenellum,* Roxb. Fl. Ind. i. pp. 322, 323?—C.P. 875, 874, 3235, 3168, 3167.

HAB. Common throughout the island.

A very variable plant, and the extreme forms of it very different in appearance, but, from the examination of a large number of specimens, I feel satisfied they may be safely arranged under one specific name. The larger hairy form occurs at a considerable elevation on the hills.

27. APOCOPIS, N. ab Es.

1. **A. Wightii,** N. ab Es. MSS.—*Andropogon Courtallumensis,* Steud. Synops. Gram. p. 377.—C.P. 401.

HAB. Galagama, in the Central Province, at an elevation of 3000 to 4000 feet.

Culmi ramosi, 1–2-pedales. *Folia* angusta, acuminata, sparse tuberculata, longiuscule pilosa. *Spica* pollicaris, pallide fulva. *Rachis* uno latere pedicellisque fulvo-pilosis. *Spicula sessilis* 1½ lin. longa, arista semipollicari. *Gluma inferior* incomplete 7-nervia, basi, cum margine rufescente, longiuscule fulvo-pilosa.

This would seem to be very closely allied to *A. Wrightii,* Munro, described in Bentham's Fl. Hongkongensis.

28. POGONATHERUM, Beauv.

1. **P. saccharoideum,** Beauv. (Benth. Flor. Hongk. p. 421.)—*P. cri-*

Digitized by Google

nitum, Trin.; Kth. Enum. i. p. 478, cum syn. *P. refractum*, N. ab Es.; Steud. Synops. Gram. p. 412.—C.P. 936.

HAB. Very common in the warmer parts of the island.

29. CHRYSOPOGON, Trin.

1. **C. aciculatus,** Trin.—*Andropogon acicularis*, Retz; Kth. Enum. i. p. 505, cum syn.—C.P. 917.

HAB. Extremely abundant in open ground, in the warmer parts of the island.

2. **C. Wightianus.**—*Andropogon Wightianus*, Steud. Synops. Gram. p. 395, cum syn.—C.P. 3248.

Var. β; *leucantha.*—*Spiculis* minoribus, albidis, pilosioribus; *pedicellis* spicul. masc. brevibus, longe aureo-fulvo-pilosis.—C.P. 2954. An species distincta?

HAB. Doombera District.

3. **C. Zeylanicus.**—*Raphis Zeylanica*, N. ab Es. MS. *Andropogon Zeylanicus*, Steud. l. c. p. 397.—C.P. 996.

HAB. Not uncommon up to an elevation of 6000 feet.

30. ANTHISTIRIA, Linn.

1. **A. ciliata,** Retz, Obs. iii. p. 11; Kth. Enum. i. p. 481, cum syn. —C.P. 3257.

Var. β; *major.*—*A. arguens*, Willd.; Kth. l. c. p. 482, cum syn.—C.P. 962.

HAB. Common up to an elevation of 4000 feet.

2. **A. tremula,** N. ab Es. (Steud. Synops. Gram. p. 401.)—C.P. 961.

HAB. Very abundant throughout the island. Non. vulg. "Paineebāroo."

3. **A. fasciculata,** Thw.; *culmis* suberectis, glabris; *foliis* linearibus, margine scabris, sæpius villosulis; *pedunculis* axillaribus, 2–5-nis, folio subæquilongis, singulis spicas duas 7-stachyas gerentibus: *spiculis masculis* 6, lanceolatis, pilosulis, pedicellatis, 2 superiorum gluma interiore apice setacea; *spicula hermaphr.* glumis parum truncatis, inferiore dense pilosa; *arista* longissima, valde robusta, aureo-pilosa.—C.P. 940.

HAB. Badulla District, up to an elevation of 3000 feet.

Culmi graciles, 2-pedales, uno latere sulcati. *Pedunculi* 3-pollicares, filiformes, infra medium articulati, bibracteati, bractea basali hyalina, superiore sæpe ad apicem pedunculi attingente. FLOR. MASC.: bipaleacei.

4. **A. heteroclita,** Roxb. Flor. Ind. i. p. 249.—*Andropogon heteroclitus*, N. ab Es.; Steud. l. c. p. 389.—C.P. 963.

HAB. Common in the more elevated parts of the Central Province.

31. ANDROPOGON, Linn.

1. **A. Halepensis,** Sibth. (Kth. Enum. i. p. 502, cum syn.—C.P. 2484.

HAB. Not uncommon in the Central Province.

2. **A. tropicus,** Spr. (Kth. l. c. p. 503, cum syn.; Benth. Flor. Hongk. p. 423.)—*Holcus fulvus*, R. Br., and var. *mutica.*—C.P. 419.

Digitized by Google

HAB. Badulla District.

3. **A. venustus,** Thw.; *culmis* erectis, altiusculis, basi albido-pilosis; *foliis* longis, linearibus, margine scabris, vagina ad apicem pilosa; *panicula* majuscula, decomposita, aperta, articulis pedicellisque ad apicem piliferis; *spiculis* anguste lanceolatis, acuminatis, subglabris, *sessili* hermaphr. longe aristata, *pedicellata* mascula, bipaleacea, mutica.—C.P. 2875.

HAB. Rambodde, in the Central Province, at an elevation of 4000 feet.

Panicula purpurascens, pedalis vel ultra, ramis capillaribus, distanter subverticillatis, plus minus pendulis. *Spiculæ* 1½–2 lin. longæ, *mascula* brevi-pedicellata, palea inferiore aliquando apice setacea.

4. **A. Martini,** Roxb. Fl. Ind. i. p. 277; Kth. l. c. p. 494; Benth. Fl. Hongk. p. 424.—*A. flexuosus*, N. ab Es.; Steud. Synops. Gram. p. 388.—C.P. 2733.

Hab. Central Province, covering considerable areas at an elevation of 2000 to 4000 feet. Nom. vulg. "Maana."

From the leaves of a cultivated variety of this species (nom. vulg. "Pangaremaana) is distilled the "citronella oil" of commerce. "Lemon oil" is derived from *Andropogon Schœnanthus*, Linn., which is considered not to be indigenous to the island, and which rarely produces flowers.

5. **A. versicolor,** N. ab Es. (Steud. l. c. p. 388.)—C.P. 3135.

HAB. More elevated parts of the Central Province.

The inflorescence of this species has, when crushed, a rather agreeable aromatic odour. The essential oil appears to be situated principally at the base of the spikelets.

6. **A. distans,** N. ab Es. (Steud. Synops. Gram. p. 387.)—C.P. 3784.

HAB. Newera Ellia.

7. **A. lividus,** Thw.; cæspitosus, culmis erectis, rigidiusculis, nodis glabris; *foliis* lineari-lanceolatis, acuminatis, glabris, ligula majuscula oblonga; *pedunculis* terminalibus axillaribusque, 1–4; *spicis* binis, subsessilibus; *rachi pedicellis*que longe ciliatis; *spiculis* glabris, lanceolatis; *spiculæ sessilis gluma inferiore* supra medium ad nervos 2 laterales alata, *flore hermaphr.* aristato; *spiculæ pedicell. gluma inferiore* vix alata, *flore* masculo, unipaleaceo.—C.P. 953.

HAB. Newera Ellia and other of the more elevated parts of the Central Province.

Siccitate fuscescens. *Culmi* bipedales vel ultra. *Spicæ* 1½–2 poll. longæ. *Spiculæ* 3 lin. longæ.

8. **A. polyptychos,** Steud. l. c. p. 380, cum syn.—C.P. 32.

HAB. Pedrotalagalla, at an elevation of 7000 feet.

Dense cæspitosus. *Folia* longiuscula, pedalia vel ultra. *Culmi* 1½–2-pedales. *Spicæ* sæpissime 3, valde fragiles, bipollicares. *Spiculæ* 2½ lin. longæ; *pedicellata* flore masculo, bipaleaceo, *paleis* pilosis.

9. **A. pertusus,** Willd. Sp. Pl. iv. p. 922; Roxb. Fl. Ind. i. p. 258. —*A. punctatus*, Roxb. l. c. p. 264. *A. fascicularis*, Roxb. l. c. p. 265. —C.P. 411, 951.

HAB. Very abundant in the hotter parts of the island.

Spicæ plus minus distanter subverticillatæ vel ad apicem racheos subfasciculatæ. *Gluma exterior* spicularum omnium, vel tantum sessilium, vel harum partim foveolata, vel aliquando omnino efoveolata. *Spicula pedicel.* mascula unipaleacea, vel neutra epaleacea.

Digitized by Google

10. **A. scandens,** Roxb. l. c. p. 258.—C.P. 3258.
HAB. Hot, drier parts of the island.

Closely allied to the preceding, and differing from it principally in the prominently nerved, hairy, and more acute inferior glume of the spikelets, and which I have in no instance observed foveolate.

11. **A. lancifolius,** Trin. (Steud. l. c. p. 382, cum syn.)—*Batratherum molle*, N. ab Es. MSS.—C.P. 3136.
HAB. Badulla District.

Basin versus spicarum spiculæ pedicellatæ sæpissime desunt.

12. **A. rudis,** Steud. l. c. p. 383.—*Batratherum rude*, N. ab Es. MS. —C.P. 866.
HAB. Not uncommon in the Central Province.

13. **A. muricatus,** Retz (Kth. Enum. i. p. 505, cum syn.)—*Anatherum muricatum*, Beauv.—C.P. 871.
HAB. Hotter parts of the island.

14. **A. Zeylanicus,** Arn. (haud N. ab Es.); Benth. Fl. Hongk. p. 423.—*A. pseudograya*, Steud. l. c. p. 395. *A. semiberbis*, Steud. l.c. *Schizachyrium semiberbe*, N. ab Es.—C.P. 3079.
HAB. Central Province, at an elevation of 3000 to 4000 feet.

32. HETEROPOGON, Pers.

1. **H. hirtus,** Pers. Syn. ii. p. 533; Benth. Fl. Hongk. p. 424.—*Andropogon contortus*, Linn.; Kth. Enum. i. p. 486.—C.P. 69.
HAB. Common throughout the island.

2. **H. concinnus,** Thw.; *culmis* tenuibus, ramosis; *foliis* linearibus, superne glanduloso-pilosis; *spicul. sessil. gluma inferiore* obovata, obtusa, ciliata, 9-nervia, vix convoluta, *superiore* lanceolata, 3-nervia, quam inferior parum longiore; *spicul. pedicell. gluma inferiore* obovata, villosula, plurinervia, *superiore* lanceolata, 5-nervia, *flore* masculo, unipaleaceo, 3-andro.—C.P. 3556.
HAB. Bibili, in the Badulla District, at no great elevation.

Spica 1–1½-pollicaris, pallide viridis, rachi pedicellisque longe albo-pilosis. *Spiculæ* 1½ lin. longæ. *Arista* flor. hemaphr. 7 lin. longa, pilosula.
Without a careful examination, this might easily be taken for a species of *Apocopis*.

33. POLLINIA, Trin. Benth. Fl. Hongk.

Eulalia, Kunth.

1. **P. tristachya.**—*Andropogon tristachyos*, Roxb. Fl. Ind. i. p. 256. *Saccarum tristachyum*, Steud. Synops. Gram. p. 408.—C.P. 995.
Forma spiculis majoribus.—C.P. 949.
HAB. Central Province, up to an elevation of 7000 feet.

Valde variabilis. *Spicæ* 2–10, 1½–6 poll. longæ. *Spiculæ* 1–2½ lin. longæ.
The form with larger spikelets occurs at the greatest elevations, and in wet peaty soil, and has most commonly two spikes to the panicle.

2. **P. Cumingii,** N. ab Es. MS.—*Andropogon aureo-fulvus*, Steud. l. c. p. 373, cum syn. An *A. aureo-villosus*, Steud. l. c. p. 380?—C.P. 959.
HAB. More elevated parts of the Central Province.

Digitized by Google

Culmi ad basin dense brunneo-tomentosi.

3. **P. Wallichiana,** N. ab Es. (Steud. l. c. p. 410.)—C.P. 950.
HAB. Not uncommon in the Central Province.

34. DIMERIA, R. Br.

1. **D. ornithopoda,** Trin. (Kth. Enum. i. p. 472.)—*D. gracilis,* N. ab Es.; Steud. Synops. Gram. p. 413.—C.P. 952, 3321.
Var. β; *spiculis* paucioribus, majoribus.—C.P. 3256.
Var. γ; *spiculis* pubescentibus.—*D. fuscescens,* Trin.; Steud. l. c.; Benth. Fl. Hongk. p. 419.—C.P. 956.
Var. δ; *spiculis* muticis.—C.P. 955.
HAB. Not uncommon throughout the island. Var. β, at Newera Ellia, and Horton Plains, at an elevation of 6000 to 7000 feet.

Folia pilosa vel glabra.

An extremely variable plant, but all the forms enumerated above appear to me certainly to belong to one species.

2. **D. pilosissima,** Trin. (Steud. l. c.)—*Haplachne pilosissima,* Pr.; Kth. l. c. p. 473.—C.P. 24, 3261.
HAB. Southern and Central Provinces.

Differs, like the preceding, in the amount of pubescence, and in the size of the spikelets.

3. **D. pusilla,** Thw.; dense cæspitosa, *culmis* erectis, brevibus; *foliis* parvis, linearibus; *spica* simplici; *rachi* tenui, triangulari, glabra; *spiculis* aristatis, villosulis, basi attenuata dense albo-pilosa; *pedicello* brevi, glabro, uno latere ad apicem acute producto; *glumis* acutis, superiore ad apicem setacea.—C.P. 957.
HAB. Kokotodua, *Gardner.*

Culmi 4–8-pollicares. *Spica* pollicaris. *Spiculæ* 1½ lin. longæ, arista circiter 5 lin. longa.

35. IMPERATA, Cyr.

1. **I. arundinacea,** Cyr. (Kth. Enum. i. p. 477, cum syn.)—C.P. 968.
HAB. Common in the hotter parts of the island. Nom. vulg. "Illook."

The leaves make an excellent thatch.

36. SACCHARUM, Linn.

1. **S. spontaneum,** Linn. (Kth. Enum. i. p. 475, cum syn.)—*S. Ægyptiacum,* Willd.; Kth. l. c. *S. semidecumbens,* Roxb. Fl. Ind. i. p. 236. *S. caudiculatum,* Roxb. l. c. p. 246; Kth. l. c.—C.P. 3681.
HAB. Hotter parts of the island.

37. PEROTIS, Ait.

1. **P. latifolia,** Ait. (Kth. Enum. i. p. 470, cum syn.)—C.P. 3164.
HAB. Abundant in the hotter parts of the island.

Digitized by Google

38. ZOYSIA, Willd.

1. **Z. pungens,** Willd. (Kth. Enum. i. p. 471, cum syn.; Benth. Fl. Hongk. p. 418, cum syn.)—C.P. 948.
HAB. Common in sandy ground near the sea.

39. SPOROBOLUS, R. Br.

1. **S. Indicus,** R. Br. (Kth. Enum. i. p. 211; Benth. Fl. Hongk. p. 426.)—C.P. 65.
HAB. Very common.

2. **S. diander,** Beauv. (Kth. l. c. p. 213, cum syn.)—*Agrostis diandra,* Retz; Willd. Sp. Pl. Ind. i. p. 371; Roxb. Fl. Ind. i. p. 317.—C.P. 3771.
HAB. Very abundant.

40. AGROSTIS, Linn.

1. **A. Royleana,** Trin. (Steud. Synops. Gram. p. 173, cum syn.)—*Calamagrostis Hookeriana,* and *C. Roylei,* Steud. l. c. pp. 192, 193.—C.P. 2394.
HAB. Central Province, at an elevation of 6000 to 8000 feet.

41. POLYPOGON, Desf.

1. **P. Monspeliensis,** Desf. (Kth. Enum. i. p. 232, cum syn.)—C.P. 144.
HAB. Oova District, rare, and possibly introduced.

42. ARISTIDA, Linn.

1. **A. cœrulescens,** Desf. (Kth. Enum. i. p. 190, cum syn.)—C.P. 915.
HAB. Common in the hot drier parts of the island.

2. **A. depressa,** Retz. (Kth. l. c.)—*A. vulgaris,* Trin. var. δ; Steud. Synops. Gram. p. 138.—C.P. 3684.
HAB. Trincomalee, *Rev. S. O. Glenie.*

43. PHRAGMITES, Trin.

1. **P. Roxburghii,** Kth. (Steud. Synops. Gram. p. 196, cum syn.)—*P. Nepalensis,* N. ab Es.; Steud. l. c. *Arundo Karka,* Roxb. Fl. Ind. i. p. 347.—C.P. 176.
HAB. Not uncommon.

44. AMPHIDONAX, N. ab Es.

1. **A. Heynei,** N. ab Es. (Steud. Synops. Gram. p. 197.)—C.P. 645.
HAB. Central and Southern Provinces, up to an elevation of 4000 feet.

2. **A. obtusiflora,** Thw.; *culmis* elatis, glabris; *foliis* ensiformibus, acuminatis, glabris, ligula brevissima dense pilosa; *panicula* aperta, ramis capillaribus; *pedicellis* basi glanduloso-callosis; *spiculis* bifloris;

Digitized by Google

glumis ovatis, glabris, apiculatis, quam flores fere dimidio brevioribus; *floribus* sessilibus, æquilongis, hermaphroditis, obtusiusculis, basi pilis subæquilongis cinctis.—C.P. 3470.

HAB. Ratnapoora, at no great elevation.

Culmi 3–4-pedales vel ultra. *Folia* bipedalia, ¾–1 poll. lata, firma. *Panicula* 6–8 poll. longa. *Spiculæ* 1 lin. longæ.

45. CYNODON, Pers.

1. **C. Dactylon,** Pers. (Kth. Enum. i. p. 259, cum syn.)—C.P. 312.
HAB. Common in the warmer parts of the island.

2. **C. Neesii,** Thw.—*C. virgatus,* N. ab Es.; Steud. Synops. Gram. p. 213 (haud Willd. Enum.)—C.P. 3749.
HAB. Trincomalee, *Rev. S. O. Glenie.*

3. **C. gracilis,** N. ab Es. (Steud. l. c.)—*Leptochloa uniflora,* Hochst. Steud. l. c. p. 209.—C.P. 2948.
HAB. Common in the hot drier parts of the island.

46. LEPTOCHLOA, Beauv.

1. **L. Chinensis,** N. ab Es. (Steud. Synops. Gram. p. 209; Benth. Fl. Hongk. p. 430, cum syn.)—*L. tenerrima,* R. and S.; Kth. Enum. i. p. 270.—C.P. 3748 (933 partim).
HAB. Atakalam Corle.

2. **L. filiformis,** R. and S. (Kth. l. c. p. 270, cum syn.)—C.P. 3245.
HAB. Colombo, *Mr. W. Ferguson.*

47. ELEUSINE, Gærtn.

1. **E. Indica,** Gærtn. (Kth. Enum. i. p. 272, cum syn.)—C.P. 937.
HAB. Very abundant.

E. Coracana, Gærtn. (nom. vulg. "Koorakkan"), is extensively cultivated by the Cinghalese as a food-grain.

48. DACTYLOCTENIUM, Willd.

1. **D. Ægyptiacum,** Willd. (Kth. Enum. i. p. 261, cum syn.)—C.P. 941.
HAB. Common in the warmer parts of the island.

49. CHLORIS, Linn.

1. **C. barbata,** Sw. (Kth. Enum. i. p. 264, cum syn.)—C.P. 954.
HAB. Common in the hotter parts of the island, especially near the sea.

2. **C. decora,** N. ab Es. (Steud. Synops. Gram. p. 205.)—*C. Meccana,* Hochst.; Steud. l. c.—C.P. 958.
HAB. Hot drier parts of the island.

3. **C. digitata,** Steud. l. c. p. 207.—*Melica digitata,* Roxb. Fl. Ind. i. p. 326. *Gymnopogon digitatus,* N. ab Es. mss.—C.P. 939.
HAB. Hot drier parts of the island.

Digitized by Google

50. **GYMNOPOGON**, Beauv.

1. **G. rigidus,** Thw.; *culmis* erectis, glabris; *foliis* linearibus, acuminatis, glabris, lateribus inæquilatis, ligula brevi ciliata; *panicula* elongata, scabra; *spiculis* majusculis, brevi-pedicellatis, parum distantibus; *glumis* acutis, trinerviis; *inferiore* parum breviore, *superiore* aliquando aristata; *floribus* longe aristatis, *hermaphrodito* cylindrico glumis duplo longiore, *sterili* minutissimo—C.P. 914.

HAB. Hot drier parts of the island.

Culmi 2–3-pedales. *Folia* pedalia, 2–3 lin. lata. *Flos hermaphroditus* semipollicaris, arista æquilonga vel ultra.

51. **AVENA**, Linn.

1. **A. aspera,** Munro, mss.—C.P. 916.

HAB. Newera Ellia and other of the more elevated parts of the island.

Culmus erectus, 2–3-pedalis, nodis pilosulis. *Folia* longiuscule pilosula vel glabra, ligula truncata lacerato-ciliata. *Panicula* parce ramosa, aperta. *Spiculæ* 4-floræ, 6 lin. longæ, floribus parum distantibus. *Gluma inferior* 3-nervia, 2 lin. longa, apice brevi-setacea, *superior* 3½ lin. longa, acuta, 5-nervia. *Palea inferior* scabriuscula, 4 lin. longa, dimidio inferiore 9-nervia, a medio longe aristata fissaque, laciniis 3-nerviis acutis. *Palea superior* brevior, dorso ad carinas ciliata.

52. **MEGALACHNE**, Steud.

1. **M. Zeylanica,** Thw.; *culmis* gracilibus, erectis, glabris, rigidis, basi ramosis; *foliis* glabris, angustis, rigidis, superne prominentim trinerviis, marginum involutione cylindricis, basi tomentellis, ligula brevissima ciliata; *panicula* pauciflora; *spiculis* bifloris, rudimento nullo, flore superiore subsessili; *glumis* glabris, lanceolatis, apice brevi-aristatis; *palea inferiore* pilosa, longe aristata, *superiore* laciniis æqualiter longe aristatis.—C.P. 3247.

HAB. Cinnamon Gardens, Colombo.

Culmi 1½–2-pedales. *Panicula* 2–4 poll. longa, purpurascens. *Glumæ* 4 lin. longæ. *Paleæ* 3 lin. longæ, aristis 4–5 lin. longis. *Squamulæ* oblongæ, truncatæ, emarginatæ, ovario brevistipitato æquilongæ. *Stamina* 2. *Stylus* fere ad basin bifidus, stigmatibus plumosis.

53. **URALEPIS**, Nutt.

1. **U. fusca,** Steud. Synops. Gram. p. 247.—*Tridens Indicus*, N. ab Es. mss.—C.P. 934.

HAB. Elephant Pass, *Gardner.*

Folia, cum rachi, scabriuscula.

54. **POA**, Linn.

1. **P. annua,** Linn. (Kth. Enum. i. p. 349, cum syn.)—C.P. 2393.

HAB. Common on roadsides in the neighbourhood of Newera Ellia, possibly introduced.

Digitized by Google

55. ERAGROSTIS, Beauv.

1. **E. bifaria,** W. and A. (Steud. Synops. Gram. p. 264.)—*E. secunda,* N. ab Es.; Steud. l. c. *Poa bifaria,* Vahl; Kth. Enum. i. p. 327.—C.P. 60.
Hab. Not uncommon up to an elevation of 5000 feet.

2. **E. unioloides,** R. and S. (Steud. l. c.; Benth. Flor. Hongk. p. 432.)—*E. amabilis,* W. and A. *Poa unioloides,* Retz; Kth. l. c. p. 335, cum syn.—C.P. 930.
Hab. Common in the warmer parts of the island.

3. **E. Brownei,** N. ab Es. (Steud. l. c. p. 279; Benth. Flor. Hongk. p. 432, cum syn.)—*Poa polymorpha,* R. Br. *P. Brownei,* Kth. l. c. p. 333.—C.P. 931.
Hab. Very abundant throughout the island.

4. **E. Zeylanica,** N. ab Es. (Steud. l. c. p. 265; Benth. l. c. p. 433.) —C.P. 3251. An præcedentis varietas?
Hab. Hotter parts of the island.

5. **E. orientalis,** Trin. (Steud. l. c. p. 267; Benth. l. c.)—C.P. 925. An *E. Brownei,* N. ab Es., varietas?
Hab. Central Province, not uncommon.

6. **E. pilosa,** Beauv. (Steud. l. c. p. 263; Benth. l. c. cum syn.)—C.P. *P. pilosa,* Linn., et *P. verticillata,* Cav.; Kth. l. c. p. 329. *P. Ægyptiaca,* Willd.; Kth. l. c, p. 336. *P. elegantula,* Kth. l. c. p. 346.—C.P. 929.
Hab. Very abundant.

7. **E. megastachya,** Link.—*Poa megastachya,* Kœl.; Kth. l. c. p. 333, cum syn.—C.P. 3163.
Hab. Hot drier parts of the island.

8. **E. paniculata,** Steud. l. c. p. 266.—*E. nigra,* N. ab Es.; Steud. l. c. p. 267. *Poa paniculata,* Roxb. Fl. Ind. i. p. 340.—C.P. 2626.
Hab. Doombeera and Maturatte Districts.
Flosculi scabriusculi.

9. **E. nutans,** Steud. l. c. p. 264, cum syn.—*Poa nutans,* Retz; Roxb. l. c. p. 335. *P. Kœnigii,* Kth. l. c. p. 346. *P. interrupta,* Kœn.; Roxb. l. c.—C.P. 3259 (933 partim).
Hab. Hot, drier parts of the island.

10. **E. plumosa,** Link; Benth. l. c. p. 431.—*Poa plumosa,* Retz; Kth. l. c. p. 328, cum syn. *P. viscosa,* Kth. l. c. p. 336. An *P. ciliaris,* Linn.?—C.P. 70, 926, 927 (928).
Hab. Very common in the warmer parts of the island, and an extremely variable plant.

56. CŒLACHNE, R. Br.

1. **C. pulchella,** R. Br. (Steud. Synops. Gram. p. 284; Benth. Fl. Hongk. p. 430.)—*Isachne simpliciuscula,* W. A.; Steud. l. c. p. 96.—C.P. 884.
Hab. Common in marshy places in the Central Province.

2. **C. perpusilla,** Thw.—*Isachne perpusilla,* Arn.; Steud. l. c.—C.P. 130 (450).

Digitized by Google

HAB. Central Province, in bogs, at an elevation of 5000 to 7000 feet.

Dense et late cæspitosa, *culmis* ramosis, 2–18 poll. longis. *Folia* ½–1 poll. longa, ½–1 lin. lata, vagina subæquilonga. *Panicula* sesquipollicaris, aperta, ramis alternis. *Spiculæ* 1 lin. longæ, flore superiore pedicellato.

57. ÆLUROPUS, Trin.

1. **Æ. lagopodioides,** Trin.—*Dactylis lagopodioides,* Linn.; Willd. Sp. Pl. i. p. 410; Burm. Ind. t. 12, fig. 2.—C.P. 876.

HAB. Not uncommon on sandy ground near the sea.

This must surely, I think, be the species figured by Burmann, as quoted above. *Dactylis glomerata,* Linn., occurs at Newera Ellia, but has no doubt been introduced.

58. LOPHATHERUM, Brongn.

1. **L. gracile,** Brongn. (Kth. Enum. i. p. 391; Benth. Fl. Hongk. p. 433, cum syn.)—*L. Lehmanni,* N. ab Es.; Steud. Synops. Gram. p. 300.—C.P. 920, 921.

HAB. Not very uncommon up to an elevation of 4000 feet

59. ELYTROPHORUS, Beauv.

1. **E. articulatus,** Beauv. (Kth. Enum. i. p. 391, cum syn.)—C.P. 935.

HAB. Warmer parts of the island.

60. TRIPOGON, Roth.

1. **T. Zeylanicus,** N. ab Es.; Steud. Synops. Gram. p. 301.—C.P. 281.

HAB. More elevated parts of the Central Province.

Cæspitosus, glaucus, *culmis* gracilibus, 1–1½ ped. longis, nodis glabris. *Folia* 4–8 poll. longa, rigidiuscula, pilosa, marginibus involutis. *Spica* 2–4 poll. longa. *Gluma superior* 2 lin. longa. *Flosculi* (setis except.) singuli 1½ lin. longi.

61. CENTOTHECA, Desv.

1. **C. lappacea,** Desv.; Kth. Enum. i. p. 366, cum syn.—C.P. 923.

HAB. Common at the margins of woods in the warmer parts of the island.

62. BRACHYPODIUM, Beauv.

1. **B. sylvaticum,** R. and S. Syst. 2, p. 741.—*B. Nepalense,* N. ab Es.; Steud. Synops. Gram. p. 316 (sub *Festuca*).—C.P. 3253.

HAB. More elevated parts of the island, common.

63. STREPTOGYNE, Beauv.

1. **S. crinita,** Beauv.; Kth. Enum. i. p. 427.—C.P. 922.

HAB. Matele district, *Gardner.*

Digitized by Google

64. ARUNDINARIA, Rich.

1. **A. debilis,** Thw.; *culmis* valde elongatis, glabris vel cum vaginis, plus minus hispidis; *foliis* parvis, glaucis, lanceolatis, apice acutissimis, glabris vel superne pilosis, basi acutatis vel subtruncatis; *paniculis* simplicibus, ramos paucifloros breviusculos semiverticellatis terminantibus; *spiculis* 3-floris, floribus 2, inferioribus hermaphroditis; *glumis* subacutis, mucronatis, 6–7-nerviis, pilosulis, *inferiore* parum breviore; *palea inferiore* quam *superior* fere duplo longiore, gluma superiore subæquilonga.—C.P. 1.

HAB. More elevated parts of the Central Province.

Culmi 2–5 lin. in diam. *Stamina* 3.

The foliage of this plant is used at Newera Ellia as a fodder for horses.

2. **A. floribunda,** Thw.; *foliis* lanceolatis, acuminatissimis, nervosis, transversim venulosis, basi plus minus acutis, vagina ad apicem longe ciliatis; *paniculis* majusculis; *spiculis* laxis, 6–8-floris; *glumis* parvis, acutis, glabris, inferiore minore: *palea inferiore* pilosula, subulato-acuminata, *superiore* subæquilonga, quam gluma superior duplo longiore. —C.P. 2624.

HAB. Maturatte District, at an elevation of 5000 feet.

Culmi erecti, 2–5-pedales. *Spiculæ* pollicares vel ultra. *Flores* 3½ lin. longi. *Stamina* 3.

65. BAMBUSA, Schreb.

1. **B. Thouarsii,** Kth. Enum. i. p. 431; Steud. Synops. Gram. p. 329. —An *B. vulgaris*, Schrad.; Steud. l. c.? *B. arundinacea*, Moon's Cat. p. 26. Et var. *β. picta;* culmis majoribus elatioribusque, stramineo et viridi variegatis.—C.P. 3252.

HAB. Southern and central parts of the island, up to an elevation of 2000 feet. Nom. vulg. "Oona-gass."

Much used by the Cinghalese for temporary buildings and other purposes. The flowers, which are very rarely produced, very much resemble those of the next species; but their outer paleæ are somewhat longer, and terminate in subulate points.

2. **B. arundinacea,** Willd. (Kth. l. c. cum syn.; Roxb. Pl. Cor. i. t. 79.)—*B. orientalis*, N. ab Es.; Steud. l. c. *B. spinosa*, Roxb.; Kth. l. c.—C.P. 3320.

HAB. Common on the margins of rivers and streams in the warmer parts of the island. Nom. vulg. "Kattoo-oona-gass."

The seeds are eaten by the Cinghalese.

3. **B. attenuata,** Thw.; *culmis* mediocribus, inermibus; *vaginis* sparsim pallide adpresso-pilosis; *foliis* glabris, lineari-lanceolatis, subabrupte acuminatis, basi rotundatis, petiolatis; *ramis florigeris* fasciculatis, breviusculis, foliatis; *panicula* simplici, spiciformi; *spiculis* glabris, subsessilibus, in fasciculos parvos congestis, angustis, attenuato-cylindricis, 5-floris, floribus 2 apicalibus plerumque sterilibus; *pedicellis* inclusis, quam flores dimidio brevioribus; *paleis inferioribus* 12-nerviis, acutis, mucronatis.—C.P. 3255.

HAB. Central Province, at an elevation of 4000 to 6000 feet.

Culmi 12–25-pedales, ½–1 poll. in diam. *Folia* 3–6 poll. longa, 4–9 lin. lata, arcte ramoso-striata. *Spiculæ* pollicares. *Paleæ inferiores* superioribus parum

Digitized by Google

longiores. *Stylus* elongatulus, infra medium incrassatus. *Stigmata* 3, plumosa, stylo multo breviora.

66. DENDROCALAMUS, N. ab Es.

1. **D. monadelphus**, Thw.; *foliis* lanceolatis, acuminatis, parum obliquis; *palea inferiore* apice subulato-acuta, quam superior parum longiore; *staminibus* 6, filamentis in tubum coalitis; *antheris* linearibus, angustis, subulato-apiculatis, apiculo piloso.—C.P. 3359.

HAB. Common in the Central Province, at an elevation of 4000 to 6000 feet.

Culmi inermes, teretes, fistulosi, 10–12-pedales, circiter 1 poll. in diam., ramosi, *vaginis* fugaci-albido-pilosis apice longe caduco-ciliatis. *Folia* 2–12 poll. longa, ½–1½ poll. lata, plurinervia, interstitiis arctissime longitudinaliter venulosis. *Spiculæ* acutæ, 4–6 lin. longæ, sæpius 3-floræ, densissime glomeratæ. *Palea superior*, ciliata.

Gen. nov. 67. OCHLANDRA, Thw.

Flores bipaleacei. *Squamulæ* 6–9 (vel forsan plura) lanceolata, 1–3-nervia. *Stamina* numerosa (7–30). *Filamenta* libera, inter se æqualia. *Antheræ* lineares, utrinque brevissime bifidæ, apice mucronulatæ. *Stylus* simplex, longiusculus, robustus, subprismaticus. *Stigmata* 4–5, brevissima, plumosa. *Caryopsis* majuscula, ovoidea, stylo persistente indurato acuminata, paleis squamisque spiculæ tecta.—Frutex, culmis *suberectis, confertis;* foliis *majusculis;* inflorescentia *terminali, laxe spicata;* spiculis *in glomerulis parvis aggregatis,* 1-*floris;* flore *terminali.*

1. **O. stridula**, Thw.—*Bambusa stridula,* Moon's Cat. p. 26.—C.P. 241 (429?).

HAB. Common in the warm, moister parts of the island, and very abundant in the Saffragam District. Nom. vulg. "Batta-gass."

The leaves make an excellent thatch.

68. TRITICUM, Linn.

1. **T. repens**, Linn.; Kth. Enum. i. p. 440, cum syn.—C.P. 924.

HAB. North of the island, *Gardner*.

Digitized by Google

CLXVIII. LYCOPODIACEÆ.

1. LYCOPODIUM, Linn.

1. **L. Phlegmaria,** Linn. (Willd. Sp. Pl. v. p. 10.)—*L. mirabile*, Willd. l. c.—C.P. 987 (1195, 1277).
HAB. Common in the Central Province.

2. **L. Hookeri,** Wall. Cat. n. 146; Hook. et Grev. Ic. Fil. t. 185.—C.P. 986 (1193, 1194).—Forma *foliis* latioribus.—C.P. 3281.
HAB. Central Province, not uncommon.

Very variable in the form of its leaves, but the size and shape of the sporangia very constant. Spring refers this to *L. ulicifolium*, Vent.

3. **L. serratum,** Thunb. Fl. Jap. p. 341, t. 38; Willd. l. c. p. 21; Hook. et Grev. Ic. Fil. t. 37.—C.P. 1419 (1189).
Forma *foliis* minoribus, magis confertis, firmioribus, inconspicue serratis.—C.P. 1115 (1488, 1273).
HAB. More elevated parts of the Central Province.

Equally variable with the preceding.

4. **L. clavatum,** Linn. (Willd. l. c. p. 13.)—C.P. 3283 (1192, 1279).
HAB. Horton Plains, at an elevation of 7000 feet.

5. **L. complanatum,** Linn. (Willd. l. c. p. 14.)—C.P. 3489.
HAB. Horton Plains, with the preceding species.

6. **L. cernuum,** Linn. (Willd. l. c. p. 15.)—C.P. 984 (1187).
HAB. Very common in the Central Province.

7. **L. Carolinianum,** Linn. (Willd. l. c. p. 13.)—C.P. 1416 (1191, 1278).
HAB. Pedro talagalla, at an elevation of 7000 feet.

2. SELAGINELLA, Spring.

1. **S. rupestris,** Spring, Mon. Lycop. part ii. p. 55.—C.P. 1414.
HAB. Damboul, *Gardner*.

2. **S. stolonifera,** Spring, l. c. p. 209.—*Lycop. stoloniferum*, Sw.—C.P. 1412 (1185).
HAB. Common in the Central Province.

3. **S. caudata,** Spring, l. c. p. 139.—*Lycop. caudatum*, Desv.; Benth. Fl. Hongk. p. 437.—C.P. 3284 (1276).
HAB. Forests of the Central and Southern Provinces.

4. **S. caulescens,** Spring, l. c. p. 158.—C.P. 985 (1186).
HAB. Central Province, *Gardner*.

5. **S. atroviridis,** Spring, l. c. p. 124.—*S. monospora*, Spring, l. c. p. 135. *Lycop. atroviride*, Wall.; Hook. Gen. Fil. t. 117, B; Benth. l. c. —C.P. 1417, 1418 (1184, 1274).
HAB. Very abundant.

6. **S. concinna,** Spring, l. c. p. 199.—*Lycop. concinnum*, Sw.—C.P. 3280.
HAB. Raxawa, in the Central Province; and near Galle.

In my specimens the inner leaves scarcely differ in shape from the outer entire distichous ones.

Digitized by Google

3. PSILOTUM, Sw.

1. **P. triquetrum,** Sw. (Hook. Gen. Fil. t. 87.)—C.P. 1420 (1272).
HAB. Not uncommon in the Central Province.

CLXIX. MARSILEACEÆ.

1. MARSILEA, Linn.

1. **M. quadrifolia,** Linn. (Willd. Sp. Pl. v. p. 538.)—C.P. 3051.
HAB. South of the island.

2. **M. erosa,** Willd. l. c. p. 540.—C.P. 1422.
Hab. Hotter parts of the island, north of Kandy.

2. AZOLLA, Lam.

1. **A. pinnata,** R. Br. Prodr. p. 167; Moore, Ind. Fil. p. 190, cum syn.—C.P. 1421.
HAB. Common in the warmer parts of the island.

CLXX. FILICES.

1. BOTRYCHIUM, Sw.

1. **B. daucifolium,** Wall. (Hook. Bot. Mag. 3rd ser. xviii. t. 5340.) —C.P. 1410 (1271).
HAB. Forests of the Central Province, up to an elevation of 4000 feet.

2. **B. Virginicum,** Willd.—Var. β. *Indicum,* Hook. Gard. Ferns, t. 29. Var. β. *lanuginosum,* Moore, Ind. Fil. p. 313, cum syn. Var. β. Wall. Cat. n. 48.—C.P. 3266 (1181).
HAB. Newera Ellia, on the turf under the shade of trees.

In general appearance very like the preceding species, but at once distinguished from it by the fertile branch of the rachis arising from the middle of the leafy portion of the frond, whilst in the preceding it originates below it.

2. HELMINTHOSTACHYS, Kaulf.

1. **H. Zeylanica,** Hook. Gen. Fil. t. 47, B, cum syn.; Gard. Ferns, t. 28.—*Botrychium Zeylanicum,* Sw. Syn. Fil. p. 172.—C.P. 1411.
HAB. South of the island, on the borders of paddy fields, etc., not uncommon.

3. OPHIOGLOSSUM, Linn.

1. **O. pendulum,** Linn. (Willd. Sp. Pl. v. p. 60; Sw. Syn. Fil. p. 170; Hook. Gard. Ferns, t. 53.)—C.P. 1409 (1180).
HAB. Common upon the trunks of trees in the Central Province.

2. **O. vulgatum,** Linn. (Willd. l. c. p. 58.)—*O. ovatum,* Willd. l. c.—C.P. 1408.
HAB. More elevated parts of the Central Province.

Digitized by Google

4. ANGIOPTERIS, Hoffm.

1. **A. erecta,** Hoffm. (Hook. Fil. Exot. t. 75, cum syn.; Benth. Fl. Hongk. p. 440.)—C.P. 1407 (967, 1177).
HAB. Common up to an elevation of 5000 feet.

5. MARATTIA, Sw.

1. **M. sorbifolia,** Sw. Syn. Fil. p. 168; Willd. Sp. Pl. v. p. 67.—C.P. 3147.
HAB. More elevated parts of the Central Province.

6. OSMUNDA, Linn.

1. **O. Javanica,** Blume, En. Fil. Jav. p. 252; Hook. Kew Journ. of Bot. ix. p. 360; Kze. in Schk. Fil. Suppl. t. 111; Benth. Fl. Hongk. p. 441, cum syn.—*O. Zeylanica,* Kze. in Schk. Fil. Suppl. t. 122 (not Linn.).—C.P. 2988 (961, 1178).
HAB. Common in the higher parts of the Central Province.

7. LYGODIUM, Sw.

1. **L. circinatum,** Sw. Syn. Fil. p. 153; Benth. Fl. Hongk. p. 441, cum syn.—*L. dichotomum,* Sw. l. c. p. 154. *Hydroglossum,* Willd.—C.P. 1406 (1269).
HAB. Not uncommon in the Central Province.

2. **L. scandens,** Sw. (Presl; Benth. l. c. cum syn.)—C.P. 1404 (1183, 1270).
HAB. Very common in the warmer parts of the island.

3. **L. Japonicum,** Sw. (Presl; Benth. l. c. p. 442.)—C.P. 1405 (1268).
HAB. Common in the Central Province.

8. SCHIZÆA, Sm.

1. **S. digitata,** Sw. (Willd. Sp. Pl. v. p. 86, cum syn.; Hook. Gard. Ferns, t. 49.)—*Actinostachys,* Wall.—C.P. 3105 (969, 1182).
HAB. Kittool Galle, and near Peradenia.

9. GLEICHENIA, Sw.

1. **G. dichotoma,** Willd. (Hook. Sp. Fil. i. p. 12.)—C.P. 3106 (970, 1053).
HAB. Extremely common throughout the island.

10. CERATOPTERIS, Brongn.

1. **C. thalictroides,** Brongn. (Hook. Sp. Fil. ii. p. 235; Gen. Fil. t. 12.) —C.P. 980 (1171).
HAB. Not uncommon on the borders of streams and of paddy fields.

Digitized by Google

11. ACROSTICHUM, Linn.

a. *Euacrostichum*.

1. **A. aureum,** Linn. (Moore, Ind. Fil. p. 5, cum syn.; Hook. Gen. Fil. t. 81; Sp. Fil. v. ined.—C.P. 1315 (1152).
HAB. Common in wet places in the hotter parts of the island.

b. *Elaphoglossum*.

2. **A. laurifolium,** Thouars.—*Elaphoglossum laurifolium,* Moore, l. c. p. 359, cum syn.—C.P. 1310 (1165).
HAB. Common in forests of the Central Province.

[Probably a variety of *A. conforme,* Sw.—HOOK.]

3. **A. marginatum,** Wall. Cat. n. 17.—*A. conforme,* Bl. Fil. Jav. t. 5, and Hook. Sp. Fil. v. ined. *Elaphog. marginatum,* Moore, l. c. p. 361, cum syn.—C.P. 1311.
HAB. Central Province; particular locality not recorded.

Distinguished from the preceding by the much broader paleæ of the rhizome.

4. **A. squamosum,** Sw. (Hook. l. c. v. ined.)—*Elaphog. squamosum,* J. Sm.; Moore, l. c. p. 367, cum syn. *A. paleaceum,* Hook. et Grev. Ic. Fil. t. 235.—C.P. 3292 (1164 partim).
HAB. Central Province, not very common.

5. **A. spathulatum,** Sw. (Bory, Itin. i. p. 363, t. 20, f. 1; Hook. l. c. v. ined.)—*Elaphog. piloselloides,* δ, *spathulatum,* Moore, l. c. p. 363, cum syn.—C.P. 989 (1164, partim).
HAB. Newera Ellia, *Gardner*.

Mem.—I know nothing of *A. Lindeni,* Bory, and *A. Neitneri,* Kl. (*Elaphoglossum,* Moore, l. c. pp. 360, 362), said to occur in the island.

c. *Stenochlæna*.

6. **A. scandens,** Willd., not. ad *Lomaria scandens,* Sp. Pl. v. p. 294; Hook. l. c. v. ined.—*Stenochlæna scandens,* J. Sm. in Hook. Journ. of Bot. iii. (1841) p. 401.—C.P. 1312.
HAB. Common in the warmer parts of the island.

d. *Pœcilopteris*.

7. **A. repandum,** Blume, En. Pl. Jav. p. 104; Benth. Fl. Hongk. p. 444, cum syn.; Hook. l. c. v. ined.—*A. contaminans,* Wall. Cat.—C.P. 3075 (1161, 1232).
HAB. Forests of the Central Province, common.

8. **A. Hookerianum.**—*A. (Campium) proliferum,* Hook. Ic. Pl. vii. t. 681–2. *A. virens,* Wall. Cat. n. 1033; Hook. Ic. Pl. t. 681 and 682. Sp. Fil. v. ined. *Pœcilopteris Hookeriana,* Moore, Genera of Ferns, p. 20.—C.P. 1313.
HAB. Not uncommon in the forests of the Central Province.

e. *Polybotrya*.

9. **A. appendiculatum,** Willd. l. c. p. 114; Hook. l. c. v. ined.—*A. setosum,* Wall. Cat. n. 30. *Polybotrya appendiculata,* J. Sm.—C.P. 1314 (1160, 1234).
HAB. Very common.

Digitized by Google

f. *Gymnopteris.*

10. **A. decurrens,** Hook. Fil. Exot. t. 94; Hook. Sp. Fil. l. c. v. ined.; Benth. l. c. p. 443.

Forma *fronde* simplice.—C.P. 1316, 1317 (1157, 1135).

Forma *fronde* pinnatifida.—C.P. 1318.

HAB. Very abundant in damp forests.

11. **A. quercifolium,** Retz. (Willd. l. c. p. 112, cum syn.; Hook. l. c. v. ined.)—*Gymnopteris quercifolia,* Benth.; Hook. Ic. Pl. x. t. 905, cum syn.—C.P. 1319 (1170).

HAB. Shady banks in the warmer parts of the island.

g. *Hymenolepis.*

12. **A. spicatum,** Linn. f. (Hook. l. c. v. ined.)—*Hymenolepis spicata,* Presl. *H. ophioglossoides,* Kaulf. *Lomaria spicata,* Willd. l. c. p. 289. —C.P. 1303 (1135).

HAB. Forests of the Central Province, not uncommon.

12. DRYMOGLOSSUM, Presl.

1. **D. piloselloides,** Presl, Tent. 227, t. 10, ff. 5, 6; Hook. l. c. v. ined.; Moore, Ind. Fil. p. 343, cum syn.—C.P. 3070 (1156).

HAB. Common on the trunks of trees.

13. VITTARIA, Sm.

1. **V. scolopendrina,** Schk.—*Vittaria Zeylanica,* Fée, and Hook. Sp. Fil. v. ined. *Tæniopsis scolopendrina,* J. Sm. in Hook. Journ. of Bot. iv. (1842) p. 67. *Pteris scolopendrina,* Sw.; Bory; Willd. Sp. Pl. v. p. 356.—C.P. 1304 (1231).

HAB. Forests of the Central Province.

2. **V. lineata,** Sw. (Willd. l. c. p. 404; Hook. l. c. v. ined.)—*Tæniopsis lineata,* J. Sm. l. c.—C.P. 281 (1136).

HAB. Common in the Central Province.

14. LOMARIA, Willd.

1. **L. elongata,** Blume (Hook. Sp. Fil. iii. p. 3, cum syn.)—C.P. 1333 (1158).

HAB. More elevated parts of the Central Province.

15. BLECHNUM, Linn.

1. **B. orientale,** Linn. (Hook. Sp. Fil. iii. p. 52, cum syn.)—C.P. 977 (1085).

HAB. Very common on moist banks.

16. VAGINULARIA, Fée.

1. **V. Junghuhnii,** Mett.—*Monogramme,* Hook. Sp. Fil. v. p. 123, t. 288, B.—C.P. 1281.

HAB. Central Province, at an elevation of 3000 to 5000 feet, not very common.

Digitized by Google

17. DOODIA, R. Br.

1. **D. dives,** Kze.—Var. β. *Zeylanica,* Hook. Sp. Fil. iii. p. 73.—C.P. 976 (1086).
HAB. Woods of the Central Province.

18. MENISCIUM, Schreb.

1. **M. triphyllum,** Sw. Syn. Fil. pp. 19 and 206; Willd. Sp. Pl. v. 133; Hook. et Grev. Ic. Fil. t. 120; Hook. Sp. Fil. v. ined.—C.P. 1193.
HAB. Not uncommon in the Central and Southern Provinces.

2. **M. Thwaitesii,** Hook. Fil. Exot., not. ad t. 83.—C.P. 3145.
HAB. Oodoo pussalawa, in the Central Province, at an elevation of 4000 feet. [Traces of an involucre have been seen on the sori of this plant, which induce Sir Wm. Hooker to think it ought to be removed to the *Asplenium*-group. It will be further noticed in the Suppl. to 'Species Filicum.']

19. HEMIONITIS, Linn.

1. **H. cordata,** Roxb. (Hook. Sp. Fil. v. ined.; Moore.)—C.P. 1309 (1169).
HAB. Common in the warmer parts of the island.

2. **H. reticulata,** Forst.—*Antrophyum reticulatum,* Kaulf.; Hook. l. c. v. ined.; Spreng. Syst. iv. p. 67.—C.P. 1305 (1229).
HAB. Very common in the upper forests of the Central Province.

3. **H. plantaginea,** Cav.—*Antrophyum plantagineum,* Spreng. l. c.; Hook. l. c. v. ined.—C.P. 3290.
HAB. Central Province.

20. GRAMMITIS, Sw.

a. *Loxogramme.*

1. **G. involuta,** Don, Prod. Fl. Nep. p. 14; Hook. et Grev. Ic. Fil. t. 53.—*Gymnogramme,* Hook. Sp. Fil. v. p. 155. *Loxogramme involuta,* Pr.; Moore.—C.P. 1302 (1155).
HAB. Common upon the trunks of trees in the Central Province.

2. **G. lanceolata,** Sw. Syn. Fil. pp. 22 and 212, t. 1, f. 4; Willd. Sp. Pl. v. p. 139.—*Gymnogramme,* Hook. l. c. v. p. 156. *Loxogramme lanceolata,* Pr.; Moore.—C.P. 3146.
HAB. Pedro talagalla, at an elevation of 7000 feet.

b. *Leptogramme.*

3. **G. totta,** Pr.; Moore.—*Polypodium tottum,* Willd. l. c. p. 201. *Gymnogramme totta,* Schlecht.; Hook. l. c. v. p. 138. *G. Lowei,* Hook. et Grev. Ic. Fil. t. 89.—C.P. 1292.
HAB. Common in the more elevated parts of the Central Province.

c. *Gymnogramme.*

4. **G. serrulata,** Blume, En. p. 113; Fl. Jav. t. 42.—*Gymnogramme Javanica,* Blume, En. p. 112; Fl. Jav. t. 41; Hook. l. c. p. 145. *G.*

Digitized by Google

falcata, J. Sm. *Diplazium falcatum* and *D. fraxineum,* Don, l. c. pp. 12, 13. *Grammitis caudata,* Wall. Cat. n. 4.—C.P. 3264 (1225).

HAB. Horton Plains and Maturatte District, at an elevation of 5000 to 4000 feet.

d. *Stegnogramme.*

[5. **G. aspidioides,** Hook. Gen. Fil. t. 120, B, and Ic. Pl. x. t. 950; Hook. Sp. Fil. v. p. 150; Gardner, n. 1292.—I insert this on the authority of specimens in my herbarium from Mr. Gardner, the same number as Mr. Thwaites (*supra*) refers to *G. (Leptogramme) totta.* I possess both species from Ceylon.—HOOK.]

21. ASPLENIUM, Linn.

a. *Thamnopteris.*

1. **A. Nidus,** Linn. (Hook. Sp. Fil. iii. p. 77, cum syn.)—C.P. 3267.

HAB. Very common.

b. *Euasplenium.*

2. **A. ensiforme,** Wall. (Hook. et Grev. Ic. Fil. t. 71; Hook. Sp. Fil. l. c. p. 89.)—C.P. 1334.

HAB. Rambodde, in the Central Province, *Gardner.*

3. **A. Wightianum,** Wall. (Hook. l. c. p. 105, t. 167, cum syn.)—*A. Walkeræ,* Hook. l. c. p. 108, t. 163. An *A. longipes,* Fée; Hook. l. c. p. 106?—C.P. 1010 (1070).

HAB. Common in the forests of the Central Province.

The two forms of *A. Wightianum* and *A. Walkeræ* merge insensibly into one another.

4. **A. persicifolium,** J. Sm.

Var. *latifolium,* Hook, l. c. p. 109.—C.P. 3461.

HAB. Newera Ellia, and other more elevated parts of the Central Province.

5. **A. elongatum,** Sw. Syn. Fil. p. 79; Hook. l. c. p. 117.—C.P. 1007 (1078).

HAB. Not uncommon in the Central Province.

6. **A. tenerum,** Forst.; Hook. l. c.?—C.P. 1371.

HAB. Hantani, in the Central Province.

Caudex brevis. *Frondes* (cum stipite) 6–15 poll. longæ, subtus paleis parvis adpressis fuscis conspersæ. *Pinnæ* plus minus acuminatæ. *Indusium* demum margine arcte revolutum.—[This Fern, Ceyl. Pl. n. 1371, is identical with my n. 1072 of Gardner, which in my Sp. Fil. iii. p. 158, I have considered a small form of the very variable *A. macrophyllum,* Sw. Mr. Thwaites (see next page, n. 13) refers Gardner's plant to it.—HOOK.]

7. **A. erectum,** Bory. (Hook. l. c. p. 126, cum syn.)—C.P. 3141 (1074).

HAB. Central Province, not uncommon.

8. **A. resectum,** Sm. (Hook. l. c. p. 130, cum syn.)—C.P. 427, 1336, 1337, 1338, 3269 (1075, 1077).

HAB. Very abundant in the forests of the Central Province.

An extremely variable species.

9. **A. heterocarpum,** Wall. (Hook. l. c. p. 132, t. 175.)—C.P. 1006 (1076).

HAB. Not uncommon in moist woods.

Digitized by Google

10. **A. normale,** Don, Prod. Fl. Nep. p. 7; Moore, Ind. Fil. p. 149, cum syn.—*A. multijugum,* Wall.; Hook. l. c. p. 139, t. 188, cum syn. —C.P. 1005 (1073).
HAB. Damp forests, common.

11. **A. formosum,** Willd. (Hook. l. c. p. 143, cum syn.; Moore, l. c. p. 132, cum syn.)—C.P. 3487.
HAB. Forests above Galagama, towards Horton Plains.

12. **A. caudatum,** Forst. (Hook. l. c. p. 152, cum syn.)—C.P. 1339 (1081).
HAB. Newera Ellia, *Gardner.*

13. **A. macrophyllum,** Sw. (Hook. l. c. p. 158, tt. 196, 197, cum syn.) —C.P. 1340 (1072).
HAB. Newera Ellia and other more elevated parts of the Central Province.

Is this really distinct from *A. caudatum,* or merely that species in a less advanced stage of growth?

14. **A. falcatum,** Lam. (Hook. l.c. p. 160, cum syn.)—C.P. 3140 (1080).
HAB. Common.

15. **A. planicaule,** Wall. (Hook. l. c. p. 163, cum syn.; Moore, l. c. p. 154, cum syn.)—C.P. 3289.
HAB. Not uncommon in forests of the Central Province.

16. **A. furcatum,** Thunb. (Hook. l. c. p. 165, cum syn.)—C.P. 3497.
HAB. More elevated parts of the Central Province.

17. **A. spathulinum,** J. Sm. (Hook. l. c. p. 170, cum syn.)—C.P. 2905, 1341 (1082).
HAB. Central Province, in the higher forests.

18. **A. nitidum,** Sw. (Hook. l. c. p. 172.)—C.P. 1008 (1083, 1084).
Forma magis composita. An *A. laserpitiifolium,* Lam.; Hook. Sp. Fil. iii. p. 172, t. 203?—C.P. 3801.
HAB. Common in the forests of the Central Province.

19. **A. tenuifolium,** Don. (Hook. l. c. p. 193, cum syn.)—C.P. 3268 (1079).
HAB. Newera Ellia, by the sides of streams.

20. **A. prolongatum,** Hook. l. c. p. 209; 2nd Century of Ferns, t. 42. —*A. rutæfolium,* Pr., var. *β. furcata,* Moore, l. c. p. 163.—C.P. 1348.
HAB. Pas-doon Corle, *Gardner.* Singhe-rajah forest.

21. **A. varians,** Hook. et Grev. (Hook. l. c. p. 192, cum syn.; Moore, l. c. p. 176.)—C.P. 3139.
HAB. Oova District, not common.

c. *Athyrium.*

22. **A. nigripes,** Mett. (Hook. l. c. p. 222, cum syn.)—*Athyrium tenuifrons,* var. *γ. straminea,* Moore, l. c. p. 188.—C.P. 3067.
HAB. Forests of the Central Province, at an elevation of 4000 to 6000 feet.

23. **A. macrocarpum,** Blume (haud Fée). (Hook. l. c. p. 222, cum syn.)—C.P. 1372 (1103, 1112).
HAB. More elevated parts of the Central Province.

Digitized by Google

24. **A. aspidioides,** Schlecht. (Hook. l. c. p. 223, cum syn.)—C.P. 1346 (1065).
HAB. Newera Ellia, Maturatte, etc.

25. **A. gymnogrammoides,** Kl. (Hook. l. c. p. 227, cum syn.)—C.P. 1344, 1345 (1066–9).
HAB. Higher forests of the Central Province.

Some forms of this plant approach very nearly *A. aspidioides*.

26. **A. australe,** Brack. (Hook. l. c. p. 232, cum syn.)—C.P. 1347.
HAB. Damp shady forests in the Central Province.

The more deltoid and flaccid fronds and their smaller ultimate divisions distinguish this species from the preceding one.

d. *Diplazium*.

27. **A. lanceum,** Thunb. (Hook. l. c. p. 235, cum syn.)—C.P. 1335.
HAB. Forests of the Central Province.

28. **A. Zeylanicum,** Hook. l. c. p. 237; 2nd Century of Ferns, t. 16.—C.P. 3101 (1249).
HAB. Forests of the Ambagamowa and Kotmalie Districts.

A good species, and by no means the young state of a more compound form.

29. **A. sylvaticum,** Pr. (Hook. l. c. p. 248, cum syn.)—*A. elatum*, Mett.; Hook. l. c. p. 249. *Diplazium sylvaticum*, Sw.; Moore, l. c. p. 339, cum syn.—C.P. 1349.
HAB. Common in the forests of the Central and Southern Provinces.

30. **A. Thwaitesii,** A. Br. (Hook. l. c. p. 250, cum syn.; 2nd Century of Ferns, t. 45.)—C.P. 1343.
HAB. Forests of the Central Province.

31. **A. Schkuhrii,** Mett. (Hook. l. c. p. 251, cum syn.)—*Diplazium Schkuhrii*, L. Sm.; Moore, l. c. p. 337.—C.P. 3100 (1063, 1247).
HAB. Ambagamowa and Saffragam Districts.

In large specimens the lower pinnæ are pinnated with their pinnules pinnatifid.

32. **A. polypodioides,** Mett. (Hook. l. c. 257, cum syn.)—*Diplazium polypodioides*, Blume; Moore, l. c. p. 334, cum syn.—C.P. 1352, 1353, 3098 (1061, 1062).
Var. β; *pinnulis* magis acuminatis, ramo inferiore venarum primariarum a costa parum distante.—*Diplazium dilatatum*, var. β. *minor*, Moore, l. c. p. 327.—C.P. 3332 (1245). An species distincta?
HAB. Very abundant in damp forests; var. β, Ambagamowa.

33. **A. dilatatum,** Hook. l. c. p. 258, cum syn.—C.P. 1350 (1060).
HAB. Very common in damp forests.

e. *Anisogonium*.

34. **A. esculentum,** Pr. (Hook. l. c. p. 268, cum syn.)—*Callipteris ambigua*, Moore, Ind. Fil. p. 216, cum syn.—C.P. 3270 (1058).
HAB. Common on the shady banks of rivers and streams.

22. ALLANTODIA, Wall.

1. **A. Brunoniana,** Wall. (Plant. As. Rar. p. 44, t. 52; Hook. Sp. Fil. iii. p. 275, cum syn.)—C.P. 2543 (1057).

Digitized by Google

HAB. Damp forests of the Central Province, at an elevation of 3000 to 6000 feet.

23. ACTINIOPTERIS, Link.

1. **A. radiata,** Link. (Hook. Sp. Fil. iii p. 276, cum syn.; Hook. Ic. Plant. tt. 975, 976.)—C.P. 1342.
HAB. Trincomalie, *Gardner*. Gonagama on the lower Badulla road from Kandy.

24. PTERIS, Linn.

a. *Pellæa.*

1. **P. geraniifolia,** Raddi. (Hook. Ic. Plant. x. t. 915.)—*Pellæa geraniifolia*, Fée; Hook. Sp. Fil. ii. p. 132, cum syn.—C.P. 3103 (1125).
HAB. Common in the warmer parts of the island.

2. **P. Boivini,** Hook. l. c. p. 147, t. 118, A.—C.P. 3363.
HAB. Hantani, in the Central Province, at an elevation of 4000 feet.

b. *Ornithopteris.*

3. **P. aquilina,** Linn.—Var. *β. lanuginosa,* Hook. l. c. p. 196, cum syn.—C.P. 1332 (1134).
HAB. Very common in the Central Province.

c. *Eupteris.*

4. **P. longifolia,** Linn. (Hook. Sp. Fil. ii. p. 157, cum syn.)—C.P. 3144.
HAB. Oova and Doombera Districts.

5. **P. Cretica,** Linn. (Hook. l. c. p. 159, cum syn.)—C.P. 3502.
Var. *β. P. Hookeriana*, Ag. (Hook. l. c. p. 165.)—C.P. 1329.
HAB. Oova District; var. *β* in the Saffragam District.

Var. *β* is distinguished by the more coriaceous texture of its barren fronds, their wider pinnæ, and the veins of the latter being directed more forward.

6. **P. crenata,** Sw. (Hook. l. c. p. 163, cum syn.)—C.P. 1328.
HAB. A very abundant species in the warmer parts of the island.

7. **P. patens,** Hook. l. c. p. 177, t. 137, cum. syn.—An *P. (Campteria) Gardneri*, Fée, Gen. Fil. p. 139; Hook. l. c. p. 207?—C.P. 1047 (1126).
HAB. Forests of the Central Province, not very uncommon.

A most beautiful species, with large feathery fronds four or five feet in length.

8. **P. quadriaurita,** Retz. (Hook. l.c. p. 179, t. 134, B, cum syn.)—C.P. 1330 (1129).—Et forma *ludens; pinnulis* plus minus irregularibus, aliis elongatis, aliis abbreviatis vel abortivis.—C.P. 1351, 3060 (1133).
HAB. Very abundant.

9. **P. semipinnata,** Linn. (Hook. l. c. p. 169, cum syn.)
HAB. Ceylon; Walker, in *Herb. Hook.*

I have never seen the typical *P. semipinnata* growing in the island; some of the aberrant forms of *P. quadriaurita* would seem to make an approach to it.

Digitized by Google

d. *Campteria.*

10. **P. biaurita,** Linn. (Hook. l. c. p. 203, cum syn.)—*P. nemoralis,* Willd.; Hook. l. c. p. 202, cum syn.—C.P. 1048 (1128, 1130, 1240, 1241).

HAB. Very common in the Central Province.

Although specimens occur which appear intermediate between this plant and *P. quadriaurita,* I believe the two are specifically distinct. Very young plants of each, growing side by side under exactly similar conditions, exhibit respectively, in a marked degree, the characteristic venation of the mature plants.

e. *Litobrochia.*

11. **P. tripartita,** Sw. (Hook. l. c. p. 225, t. 138, B, cum syn.)—C.P. 1327 (1127).
HAB. Forests of the Central Province, not very common.

12. **P. aurita,** Blume. (Hook. l. c. p. 231, cum syn. An *P. incisæ,* Thunb. var.?)—C.P. 1326.
HAB. Not uncommon in the Central Province.

25. CHEILANTHES, Sw.

1. **C. farinosa,** Kaulf. (Hook. Sp. Fil. ii. p. 77, cum syn.)—C.P. 2987 (1168).
HAB. More elevated parts of the Central Province.

2. **C. tenuifolia,** Sw. (Hook. l. c. p. 82, cum syn.)—C.P. 1322 (1167, 1237).
HAB. Common in the warmer parts of the island.

3. **C. Mysorensis,** Wall. (Hook. l. c. p. 94, cum syn.)—C.P. 1320 (1166).
HAB. Badulla and Doombera Districts.

4. **C. varians,** Hook. l. c. p. 89, t. 103, A, cum syn.—*C. laxa,* Moore, Ind. Fil. p. 245.—C.P. 1321.
HAB. Kornegalle District and Caloopahane.

26. ADIANTUM, Linn.

1. **A. lunulatum,** Burm. (Hook. Sp. Fil. ii. p. 11, cum syn.; Rheede, Hort. Mal. xii. p. 72, t. 40.)—C.P. 1323 (1238).
HAB. Hotter parts of the island.

2. **A. rhizophorum,** Sw. (Hook. l. c. p. 12, cum syn.)—C.P. 3102.
HAB. Oova and Doombera Districts.

3. **A. caudatum,** Linn. (Hook. l. c. cum syn.)—C.P. 978 (1124).
HAB. Very abundant in the warmer parts of the island.

4. **A. flabellulatum,** Linn. (Hook. l. c. p. 30, cum syn.)—C.P. 3390 (1239).
HAB. Oova District.

5. **A. hispidulum,** Sw. (Hook. l. c. p. 31, cum syn.)—C.P. 1325 (1023).
HAB. Not uncommon.

6. **A. Capillus-Veneris,** Linn. (Hook. l. c. p. 36, cum syn.)—C.P. 1324.
HAB. Oova and Doombera Districts.

Digitized by Google

27. LINDSÆA, Dryand.

a. *Eulindsæa.*

1. **L. cultrata,** Sw. (Hook. Sp. Fil. i. p. 203, cum syn.)—C.P. 3070.
HAB. Abundant in the more elevated parts of the Central Province.

2. **L. repens.**—*L. oblongifolia,* Reinw.; Hook. l. c. p. 206. *Davallia Boryana,* Presl; Hook. l. c. p. 175, cum syn. *Acrophorus repens,* Moore, Ind. Fil. p. 3, cum syn. *Dicksonia repens,* Bory; Willd. Sp. Pl. v. p. 482.—C.P. 3389. Forma *minor,* lobis pinnarum longioribus.—C.P. 1389.
HAB. Singhe-rajah Forest. Forma *minor,* Matale, *Gardner.*

3. **L. Walkeræ,** Hook. l. c. p. 209, t. 99, A.—C.P. 1379.
HAB. Swampy grassy places in the Saffragam District.

4. **L. flabellulata,** Dryand. (Hook. l. c. p. 211, cum syn.)—C.P. 3311.
HAB. Forests of the Central Province.

5. **L. tenera,** Dryand. (Hook. l. c.)—C.P. 1381 (1259).
HAB. Not uncommon in the Central Province.
Closely allied to *L. flabellulata,* if not a form of it.

6. **L. caudata,** Hook. l. c. p. 215; Hook. Ic. Plant. x. t. 958, and Century of Ferns, t. 58.—C.P. 1380 (1262).
HAB. Forests of the Central Province, not uncommon.

b. *Schizoloma.*

7. **L. ensifolia,** Sw. (Hook. l. c. p. 220, cum syn.; Hook. et Grev. Ic. Fil. t. 3.)—C.P. 1382 (1131).
HAB. Common in the warmer parts of the island.

8. **L. nitens,** Blume, En. Fil. Jav. p. 217.—*L. recurvata,* Wall.; Hook. l. c. p. 222, cum syn. Et forma *bipinnata, L. obtusa,* J. Sm.; Hook. l. c. p. 224.—C.P. 982 (1260, 1261).
HAB. Very common in the forests of the Central Province.
The pinnæ or pinnules, as the case may be, of this very variable plant are as frequently directed forwards as recurved, so that Blume's name is much more generally appropriated than Wallich's.

28. DAVALLIA, Linn.

a. *Humata.*

1. **D. pedata,** Sw. (Hook. Sp. Fil. i. p. 154, t. 45, A, cum syn.)—C.P. 1383 (1113).
HAB. Common in the Central Province.

2. **D. vestita,** Blume, En. Fil. Jav. p. 233; Hook. l. c. p. 156, t. 41, C.—C.P. 3068.
HAB. Bopatalawa Plains, in the Central Province, at an elevation of 5000 to 6000 feet.

b. *Leucostegia.*

3. **D. pulchra,** Don. (Prod. Fl. Nep. p. 11; Hook. l. c. p. 160.)—*D. chærophylla,* Wall. Cat. n. 259; Hook. l. c. p. 157, t. 51, A, cum syn. *Acrophorus pulcher,* Moore, Ind. Fil. p. 3, cum syn.—C.P. 3288.

Digitized by Google

HAB. Forests above Galagama, upon rocks in damp gullies.

4. **D. affinis,** Hook. l. c. p. 158, t. 52, B.—*Acrophorus affinis,* Moore, l. c. p. 1.—C.P. 1384 (1117).
HAB. Very common in damp forests of the Central Province.

c. *Prosaptia.*

5. **D. Emersoni,** Hook. et Grev. (Ic. Fil. t. 105; Hook. l. c. p. 161, cum syn.)—C.P. 1385.
HAB. Not uncommon in forests of the Central Province.

6. **D. contigua,** Sw. (Hook. l. c. cum syn.)—C.P. 3069 (1114).
HAB. Common in the more elevated parts of the Central Province.

d. *Eudavallia.*

7. **D. elegans,** Sw. (Hook. l. c. p. 164, t. 43, A and B, cum syn.; Moore, l. c. p. 293.)—C.P. 3078.
HAB. Not very uncommon in the Central and Southern Provinces of the island, at no great elevation.

8. **D. tenuifolia,** Sw. (Hook. l. c. p. 186, cum syn.; Moore, l. c. p. 301.)—C.P. 983 (1115).
HAB. Very abundant.

e. *Microlepia.*

9. **D. strigosa.**—*D. Khasyana,* Hook. l. c. p. 173, tt. 47 A, 57 A. *Dicksonia strigosa,* Sw.; Hook. l. c. p. 81, cum syn. (Moore).—C.P. 1386 (1120).
HAB. Common in the forests of the Central Province.

10. **D. platyphylla,** Don. (Prod. Fl. Nep. p. 10.)—*D. lonchitidea,* Wall.; Hook. l. c. t. 46, B, cum syn.—C.P. 3277.
HAB. Rambodde, in the Central Province, *Gardner.*

11. **D. inæqualis,** Kze. (Hook. l. c. p. 180, cum syn.)
HAB. Ceylon; *Walker,* in Herb. Hook.

12. **D. hirta,** Kaulf. (Hook. l. c. p. 181, cum syn.)—C.P. 3272.
HAB. Forests of the Central Province, common.

13. **D. polypodioides,** Don. (Hook. l. c. cum syn.)—C.P. 1387, 1388 (1119).
HAB. Very abundant in the Southern and Central Provinces.

29. DICKSONIA, L'Hér.

Subgenus PATANIA.

1. **D. deltoidea,** Hook. (Sp. Fil. i. p. 80, t. 28, A.)—*Dennstædtia deltoidea,* Moore, Ind. Fil. p. 305.—C.P. 1397 (1118).
HAB. Most elevated parts of the Central Province.

30. ASPIDIUM, Sw.

a. *Polystichum.*

1. **A. auriculatum,** Sw.? (Hook. Sp. Fil. iv. p. 11, t. 218, cum syn.) —C.P. 1366 (1095).

Digitized by Google

HAB. Common in the forests of the Central Province.

2. **A. aculeatum,** Sw. (Hook. l. c. p. 18, cum syn.)—C.P. 1367, 3503 (1100, 1101).
HAB. More elevated parts of the Central Province.

3. **A. biaristatum,** Blume. (Hook. l. c. p. 29.)—C.P. 3275 (1102).
HAB. Maturatte, with *A. aculeatum,* of which I suspect it will prove to be merely a variety.

4. **A. amabile,** Blume. (Hook. l. c. p. 25, t. 225, cum syn.)—C.P. 3287.
HAB. More elevated parts of the Central Province.

5. **A. anomalum,** Hook. et Arn. (Hook. l. c. p. 27; excl. "C.P. 3286," formam *Polypod. Walkeræ,* Hook.)—C.P. 3504.
HAB. Horton Plains and Happootelle, at an elevation of 5000 to 6000 feet.

6. **A. aristatum,** Sw. (Hook. l. c. p. 27.)—C.P. 1373, 3384 (1098).
HAB. Very common in the Central Province.

b. *Euaspidium.*

7. **A. pteropus,** Kze. (Hook. l. c. p. 47, cum syn.)—C.P. 1355 (1088).
HAB. Common in damp forests.

8. **A. cicutarium,** Sw. (Hook. l. c. p. 48, cum syn.)—C.P. 1356.
Var. β; *frondibus* firmioribus, siccitate nitidis, *venulis* margini frondis non vel rarius attingentibus.—C.P. 3331. An species distincta?
HAB. Central Province, not uncommon. Var. β near Badulla, *Mr. Ondaatchi;* near Galle.

9. **A. giganteum,** Blume (Hook. l. c. p. 50, cum syn.)—C.P. 1357 (1111).
Var. β? *minor,* Hook. l. c.—C.P. 1358. An species distincta?
HAB. Very abundant in the Central Province. Var. β? in the Doombera district, at no great elevation.

The fronds of var. β? are much smaller, more deeply lobed, and of much more delicate texture than those of the ordinary form.

10. **A. membranifolium,** Mett. Aspid. p. 113.—*Nephrodium (Lastrea) membranifolium,* Pr.; Hook. l. c. p. 131, t. 261, cum syn. An *A. Gardnerianum,* Mett.?—C.P. 3061, 3096 (1258).
HAB. Common in forests of the Central Province.

There would seem to be little, except the difference in the venation, to distinguish the present species from *A. giganteum.* When growing together, the two plants look precisely alike, when seen from some little distance.

11. **A. subtriphyllum,** Hook. l. c. p. 52, cum syn.—C.P. 1300.
HAB. Forests of Allagalla and Maturatte, in the Central Province.

12. **A. polymorphum,** Wall. (Hook. l. c. p. 54, cum syn.)—C.P. 1354 (1096).
HAB. Common in the Central Province.

c. *Pleocnemia.*

13. **A. Otaria,** Kze. (Mett. Asp. p. 34.)—*Nephrodium (Pleocnemia) aristatum,* Hook. l. c. p. 62, t. 238, cum syn. *Anisocampium Cumingianum,* Pr. Epim. Bot. p. 58.—C.P. 1299.
HAB. Bintenne, *Gardner;* Gonagama, north of Kandy.

Digitized by Google

d. *Nephrodium.*

14. **A. molle,** Sw.—*Nephrodium molle,* Desv.; Hook. l. c. p. 67, cum syn.—C.P. 714, 974.
HAB. Very abundant throughout the island.

15. **A. extensum,** Blume, En. Fil. Jav. p. 156.—*Nephrodium extensum,* Bl.; Hook. l. c. p. 72, cum syn.—C.P. 3391, 3498.
HAB. Oova District.

16. **A. Arbuscula,** Willd.—*Nephrodium Arbuscula,* Desv.; Hook. l. c. p. 74.—C.P. 1359 (1109).
HAB. Common in the Central Province.

17. **A. terminans,** Wall. Cat. n. 386.—*Nephrodium terminans,* J. Sm.; Hook. l. c. p. 73, cum syn.—C.P. 990 (1106).
HAB. Central Province, not uncommon.

18. **A. propinquum.**—*Nephrodium propinquum,* R. Br.; Hook. l. c. p. 79, cum syn.—C.P. 705.
HAB. South of the island, at no great elevation.

19. **A. unitum,** Mett. Asp. p. 107.—*Nephrodium unitum,* Sieb.; Hook. l. c. p. 81, cum syn.—C.P. 973.
HAB. A common species in the island.

20. **A. eusorum,** Thw.—*A. pennigerum,* Blume, l. c. p. 153 (haud Sw.).—C.P. 3064 (1104, 1252).
HAB. Forests of the Central Province, not uncommon.

Caudex brevis. *Frondes* glabræ vel subglabræ, lanceolatæ, acuminatæ, pinnatæ. *Pinnæ* numerosæ, lineares, acuminatæ, 5–10 poll. longæ, ½–1 poll. latæ, sessiles, versus basin abruptam plus minus angustatæ (paucæ inferiores subito parvulæ, rotundatæ, distantes), lobis mediocribus subintegris, abrupte truncatis, venulis pluribus, omnibus medio soriferis, 2 inferioribus infra sinum unitis. *Indusium* parvum. [This, I fear, is identical with what I consider *Nephrodium abruptum,* Sp. Fil. iv. p. 79; from which, however, the syn. of *A. pennigerum* should be excluded.—HOOK.]

21. **A. abruptum,** Blume, l. c. p. 152.—*Nephrodium abruptum,* Pr.; Hook. l. c. p. 77, t. 241, B.—C.P. 3271 (1224).
HAB. Damp forests of the Central Province.

e. *Lastrea.*

22. **A. calcaratum,** Blume, l. c. p. 159.—*Nephrodium (Lastrea) calcaratum,* Hook. l. c. p. 93, cum syn. *N. (Lastrea) falcilobum,* Hook. l. c. p. 108.—C.P. 1363, 3273 (1107, 1250).
Var. *β*. Hook. l. c. p. 108.—C.P. 992, 3050.
HAB. On the sides of streams and in damp forests, common.

A most variable plant, but the extreme forms pass insensibly into one another.

23. **A. flaccidum,** Blume, En. Fil. Jav. p 161.—*Nephrodium (Lastrea) flaccidum,* Hook. Sp. Fil. iv. p. 133, t. 263.—C.P. 3802.
HAB. More elevated parts of the Central Province.

24. **A. gracilescens,** Blume, l. c. p. 155.—*Nephrodium (Lastrea) gracilescens,* Hook. l. c. p. 93, cum syn. *A. Thelypteris,* Benth. Flor. Hongk. p. 455.—C.P. 1287 (1141).
HAB. More elevated parts of the Central Province.

25. **A. tylodes,** Kze. in Linn. xxiv. p. 281.—*Lastrea xylodes,* Moore

Digitized by Google

(fide specim. ex Herb. Ind. Orient. Hook. f. et Thoms.).—C.P. 1361 (1108).

HAB. Newera Ellia, and other more elevated parts of the Central Province.

Sori prope costulam siti.

26. **A. ochthodes,** Kze. l. c. p. 282.—*Nephrodium (Lastrea) ochthodes,* Hook. l. c. p. 109 partim. *A. glanduliferum,* Wall. Cat. n. 347. —C.P. 975 (1362).

HAB. Not uncommon in forests of the Central Province.

Very like *A. tylodes,* from which it is at once distinguished by the sori being situated nearer to the margin than to the costule of the pinna-lobes.

27. **A. spectabile,** Blume, l. c. p. 158.—*Nephrodium (Lastrea) spectabile,* Hook. l. c. p. 115, cum syn.—C.P. 3274.

HAB. Higher forests of the Central Province.

28. **A. hirtipes,** Blume, l. c. p. 148.—*Nephrodium (Lastrea) hirtipes,* Hook. l. c. p. 115, cum syn. *Aspidium atratum,* Wall. Cat. n. 380.—C.P. 1291 (1091).

HAB. Common in the upper forests of the Central Province.

29. **A. Filix-mas,** Sw. (Willd. Sp. Pl. v. p. 259.)—*Nephrodium (Lastrea) Filix-mas,* Rich. Var. β, Hook. l. c. p. 116, cum syn.—C.P. 1364 (1092).

HAB. Newera Ellia and other of the most elevated parts of the Central Province.

30. **A. concinnum,** Thw.; *caudice* brevi; *frondibus* lanceolatis vel triangulari-lanceolatis, teneris, glabris, nitidis, cum stipite stramineo basi paleaceo æquilonge bipedalibus; *pinnis* lanceolatis, acuminatis; *pinnulis* trapezoideo-lanceolatis, crenato-lobatis, *lobis* parce denticulatis, *venis* paucis paulo intra marginem terminantibus et ad apices soriferis; *soris* parvis; *indusio* glabro, rotundato.—C.P. 3798.

HAB. Singhe-rajah Forest.

Very similar in general appearance to some forms of *Aspidium sparsum,* Don, but distinguished by its smaller sori, and these being much nearer to the margin of the pinnule than in that species. [*A. sparsum,* Sp.; *A. purpurascens,* Bl., is very variable, and some of my specimens have the sori very near the margins.—HOOK.]

31. **A. sparsum,** Spr. Syst. iv. p. 106.—*A. purpurascens,* Blume, l. c. p. 169. *Nephrodium sparsum,* Don, Prod. Fl. Nep. p. 6. *N. (Lastrea) purpurascens,* Hook. l. c. p. 132, t. 262, cum syn.—C.P. 1375.

Var. β; *frondium* pagina superiore nitida, *pinnulis* brevioribus, magis deltoideis, *soris* margine propioribus; *indusio* siccitate plicato.—*Lastrea sparsa,* var. *lata,* Moore, MSS.—C.P. 1368, 1369? 1370, 3383. An species distincta?

HAB. Very abundant in the forests of the Central Province.

An extremely variable species.

32. **A. divisum,** Wall. Cat. n. 393.—*Nephrodium (Lastrea) divisum,* Hook. l. c. p. 133, cum syn.—C.P. 3097.

HAB. Forests at Raxawa and Happootelle, in the Central Province.

33. **A. Blumei.**—*Nephrodium (Lastrea) Blumei,* Hook. l. c. p. 135, cum syn.—C.P. 3059 (1280).

Var. ? *frondibus* firmioribus, siccitate nigrescentibus, subtus minute glanduloso-pilosis, nec paleaceis.—C.P. 3142. An species distincta?

Digitized by Google

HAB. Common in the Central Province, in damp forests. Var.? at Newera Ellia and Maturatte.

The two forms indicated above are much alike in general appearance, but I think will prove to be specifically distinct.

34. **A. recedens,** Mett.—*Nephrodium (Lastrea) recedens,* Hook. l. c. p. 135, t. 265, cum syn.—C.P. 1374 (1110).
HAB. Forests of the Central Province.

35. **A. tenericaule,** *Nephrodium (Lastrea) tenericaule,* Hook. l. c. p. 142, t. 269, cum syn.—C.P. 1286, 1365 (1150, 1222).
HAB. Very abundant in the Central Province.

f. *Diclisodon.*

36. **A. deparioides,** Hook. Fil. Exot. i. t. 3.—*Nephrodium (Lastrea) deparioides,* Hook. Sp. Fil. iv. p. 139. *Diclisodon deparioides,* Moore, Ind. Fil. p. 316.—C.P. 3062.
HAB. Forests of the Central and Southern Provinces, up to an elevation of 3000 feet.

31. NEPHROLEPIS, Schott.

1. **N. tuberosa,** Pr. (Hook. Sp. Fil. iv. p. 151, cum syn.)—C.P. 1377 (1090).
HAB. Common throughout the island.

2. **N. exaltata,** Schott, (Hook. l. c. p. 152, cum syn.)—C.P. 3077 (1089).
HAB. Very abundant on the margins of woods, sides of streams, etc.

3. **N. acuta,** Pr. (Hook. l. c. p. 153, cum syn.)—C.P. 991.
HAB. Equally abundant with the preceding, of which I believe it to be only a luxuriant form.

4. **N. obliterata,** Hook. l. c. p. 154, cum syn.—C.P. 1376 (1094).
HAB. A very common plant.

32. OLEANDRA, Cav.

1. **O. neriiformis,** Cav. (Hook. Sp. Fil. iv. p. 156; Hook. Fil. Exot. t. 58).—C.P. 1378 (1087).
HAB. Upper forests of the Central Province.

33. POLYPODIUM, Linn.

a. *Eupolypodium.*

1. **P. parasiticum,** Mett. (Hook. Sp. Fil. iv. p. 167, cum syn.)—C.P. 1283.
HAB. Central Province, and in Pas-doon-Corle.

2. **P. Zeylanicum,** Mett. (Hook. l. c. p. 169, t. 272 B.)—C.P. 3074 (1138, 1283).
HAB. Common in the more elevated parts of the Central Province.

Digitized by Google

3. **P. cucullatum,** Nees. (Hook. l. c. p. 176, cum syn.)—*Calymmodon cucullatus*, Pr.—C.P. 1282.
HAB. Higher forests of the Central Province, not common.

4. **P. parvulum,** Bory, (Hook. l. c. p. 184, t. 274 B.)—C.P. 1290, 3073.
HAB. Common on the trunks of trees in the higher parts of the Central Province.

Distinguished from *P. obliquatum*, Bl., small forms of which it greatly resembles, by the sori not being immersed as in that species. The fronds are frequently hispidulous beneath.

5. **P. glandulosum,** Hook. l. c. p. 193, t. 276 A.—C.P. 1289.
HAB. Rambodde, in the Central Province, *Gardner*.

6. **P. obliquatum,** Blume, (Hook. l. c. p. 190, cum syn.)—C.P. 1284 (1146).
HAB. Very abundant on the trunks of trees in the more elevated parts of the Central Province.

7. **P. elongatum,** Wall. (Hook. l. c. p. 234).
Forma *a. frondibus* pinnatis, *pinnis* crenatis vel brevilobatis, lobis rotundatis subdenticulatis.—C.P. 3276 *a* (1256).
Forma *b. frondibus* pinnato-pinnatifidis vel subbipinnatis.—*P. Walkeræ*, Hook. l. c. p. 233.—C.P. 3276 *b* (1256).
Forma *c. frondibus* bi-tri-pinnatis.—C.P. 3286; an species distincta?
HAB. Var. *a* and *b*. Carawitte Kanda and Ambagamowa; var. *c*, Ambagamowa.

Var. *c*, although very closely allied to the other two varieties, and, in some instances, hardly to be distinguished from var. *b*, except by its more composite structure, is probably specifically distinct, the fronds assuming a different tint of brown when dry.

8. **P. paludosum,** Blume, (Hook. l. c. p. 245, cum syn.)—C.P. 1288 (1151).
HAB. More elevated parts of the Central Province.

9. **P. rufescens,** Blume, (Fil. Jav. p. 194, t. 91; Hook. l. c. p. 257.) —C.P. 3143 (1148).
HAB. Forests of the Central Province, at an elevation of 3000 to 5000 feet.

[A species hitherto unknown to me; Mr. Thwaites's n. 3143 sufficiently corresponds in habit and form with Blume's figure, but the specimens are smaller, less compound, and more membranaceous.—HOOK.]

10. **P. rugulosum,** Labill. (Hook. l. c. p. 272, cum syn.)—C.P. 1285 (1149).
HAB. Common in the Central Province.

b. *Goniopteris*.

11. **P. granulosum,** Pr. (Benth. Flor. Hongk. p. 459, cum syn.)—*P. urophyllum*, Wall. Cat. n. 299; Hook. l. c. v. p. 9.—C.P. 3063 (1137, 1223).
HAB. Forests of the Central Province, not uncommon.

c. *Pleopeltis*.

12. **P. Wightianum,** Wall. Cat. n. 2222. (Benth. l. c. p. 458, cum

Digitized by Google

syn.)—*P. loriforme*, Wall.; Hook. l.c. v. p. 57. *Pleopeltis nuda*, Hook. Ex. Fl. t. 63.—C.P. 1295 (1139).
HAB. Common in forests of the Central Province.

13. **P. tridactylon,** Wall. (Hook. and Grev. Ic. Fil. t. 209; Hook. Sp. Fil. l. c. v. p. 75; Benth. l. c.)—C.P. 1301.
HAB. Muruta, *Gardner;* Ambagamowa District, at no great elevation.

14. **P. membranaceum,** Don, Prod. Fl. Nep. p. 2; Hook. l. c. v. p. 79.—*Pleopeltis*, Moore.—C.P. 1298 (1145).
HAB. Common on the trunks of trees, etc., in damp forests of the Central Province.

15. **P. nigrescens,** Blume, En. Fil. Jav. p. 126; Hook. Fil. Exot. t. 22; Hook. l. c. v. p. 81.—*Phymatodes saccata*, J. Sm. Cat. Cult. Ferns, p. 9.—C.P. 1296 (1144).
HAB. Common in forests of the Central Province.

16. **P. Phymatodes,** Linn. (Willd.; Hook. l. c. v. p. 82; Blume, l. c. p. 125).—C.P. 1297.
HAB. Common in the warmer parts of the island.

17. **P. oxylobum,** Wall. Cat.; Hook. l. c. v. p. 77.—*Phymatodes hastata*, Moore; *P. longipes*, J. Sm. l. c.—An *Polypod. hastatum*, Thunb. (*P. Cyrtoloma*, Wall. Cat.) forma?—C.P. 3291 (1143).
HAB. More elevated parts of the Central Province.

18. **P. irioides,** Poir. (Spreng. Syst. iv. p. 48; Hook. l. c. v. p. 67. —C.P. 3799.
HAB. Ettangwelle and Halgodde Pass, Matelle East.

d. *Drynaria.*

19. **P. quercifolium,** Linn. (Hook. l. c. v. p. 96).—*Drynaria quercifolia*, Bory. *Phymatodes quercifolia*, Pr.—C.P. 3265 (1142).
HAB. Very abundant upon old trees in the warmer parts of the island.

e. *Niphobolus.*

20. **P. Gardneri,** Mett. Polyp. p. 129; (Hook. l. c. v. p. 51.)—C.P. 988 (1154).
HAB. Not uncommon.

Rhizoma, cum *stipitum* basi, paleis firmis erectis lanceolatis fusco-nigris margine fulvis tectum.

21. **P. porosum,** Wall. Cat. n. 260; Hook. l. c. v. p. 48.—*Niphobolus porosus*, Pr.—C.P. 3104 (1226).
HAB. Forests of the Central Province, at no great elevation, not common.

22. **P. Lingua,** Sw. (Willd. Sp. Pl. v. p. 162; Hook. l. c. v. p. 49.)—*Acrostichum Lingua*, Thunb. Fl. Jap. p. 330, t. 33.—C.P. 1294.
HAB. Not uncommon in the warmer parts of the island, and up to an elevation of 3000 feet.

23. **P. adnascens,** Sw.; Willd. l. c. p. 145; Hook. l. c. v. p. 47; Benth. Fl. Hongk. p. 458, cum syn.—*P. pertusum*, Roxb.; Hook. Ex.

Digitized by Google

Fl. t. 162. *Niphobolus adnescens*, Kaulf. *N. carnosus*, Bl. *N. pertusus*, Spr.—C.P. 993, 3293 (1153).
HAB. Very common upon the trunks of trees.

[N.B. *P. acrostichoides*, Sw. Hook. l. c. v. p .44, is considered a native of Ceylon, on the authority of a specimen from *Gardner*.]

34. DIACALPE, Blume.

1. **D. aspidioides,** Blume. (Hook. Sp. Fil. i. p. 59, cum syn.)—C.P. 3282.
HAB. "Black Pool" in Newera Ellia, *Dr. E. Bradford*.

35. CYATHEA, Sw.

1. **C. sinuata,** Hook. et Grev. Ic. Fil. t. 2; Hook. Sp. Fil. i. p. 15; Gard. Ferns, t. 21.—C.P. 3052.
HAB. Forests in the Kokoole and Hinidoon Corles, at no great elevation; most abundant in the Singhe-rajah Forest.

2. **C. Hookeri,** Thw.; *caudice* elongato; *stipitibus* basi parce muricatis et paleis rigidiusculis setoso-acuminatis munitis; *frondibus* anguste lanceolatis, acuminatis, pinnatis, apice pinnatifidis; *pinnis* lanceolatis subintegris vel crenato-lobatis, basi latioribus truncatisque, brevipetiolatis, superioribus sessilibus, inferioribus gradatim minoribus, subtus ad costam parce paleaceis; *venis* simplice pinnatis, ramis inferioribus supra sinum terminantibus, prope basin soriferis; indusio globoso, irregulariter fisso.—C.P. 3722.
HAB. Singhe-rajah Forest.

Caudex circiter 1½ poll. in diam., basibus nigris frondium delapsarum tectus. *Frondes* 3-pedales vel ultra, circiter 6 poll. latæ. [A small, for an arborescent Fern, but a very distinct species, now happily in cultivation at Kew.—HOOK.]

3. **C. Walkeræ,** Hook. l. c. p. 24; Hook. Ic. Plant. vii. t. 647.—C.P. 1398, 1399 (1054, 1400).—Forma *indusiis* majoribus, subregularibus.—C.P. 3053.
HAB. Common in the Central Province, up to an elevation of 6000 feet.

Varies greatly in the more or less coriaceous texture of its fronds, and in the amount of development of the indusium, which is sometimes hardly to be detected. This species seems to be very closely allied indeed to *C. spinulosa*, Wall.

36. ALSOPHILA, R. Br.

1. **A. gigantea,** Wall. (Hook. Sp. Fil. i. p. 53, cum syn.)—C.P. 1403.
HAB. Not uncommon in the Central and Southern Provinces, up to an elevation of 4000 feet.

2. **A. crinita,** Hook. l. c. p. 54; Hook. Ic. Plant. t. 671.—C.P. 1401.
HAB. Newera Ellia and other of the more elevated parts of the Central Province.

Digitized by Google

37. HYMENOPHYLLUM, Sm.

1. **H. corticola**, Hook.—*H. Lyallii*, Moore, in Litt. (but certainly not *H. Lyallii*, Hook. fil. Nov. Zeal. ii. p. 16).—C.P. 3278 (1265).
HAB. Ambagamowa District.

Rhizoma capillare, repens, et, cum *stipitibus* longiusculis, hispidulum. *Frondes* ½–1-pollicares, cuneato-orbiculares, palmato-incisæ, glabræ, *segmentis* linearibus, retusis, costa centrali, margine non incrassata. *Sori* terminales, *involucro* poculiformi, subbilabiato.

2. **H. Tunbridgense**, Sm. (Hook. l. c. p. 95, cum syn.)—C.P. 2984.
HAB. Common in the more elevated parts of the Central Province.

3. **H. crispatum**, Wall. (Hook. l. c. p. 105, cum syn.)—C.P. 1394, 1395.
HAB. Very abundant in the forests of the Central and Southern Provinces.

4. **H. polyanthos**, Sw. (Hook. l. c. p. 106, cum syn.)—C.P. 3279, 3360 (1264).—Van den Bosch, in his second supplement to the 'Hymenophyllaceæ,' refers to Mr. Thwaites's n. 3360, for his *H. macroglossum* (Hook).
HAB. Upper forests of the Central Province.

5. **H. Blumeanum**, Spr. Syst. iv. p. 131; Blume, En. Fil. Jav. p. 220; Hook. Sp. Fil. i. p. 147; Van den Bosch, Hymenoph. Jav. p. 46, t. 36.—C.P. 1391.
HAB. Forests of the Southern and Central Provinces.

6. **H. exsertum**, Wall. (Hook. l. c. p. 109, t. 38 A, cum syn.)—C.P. 1390.
HAB. Very common in the upper forests of the Central Province.

38. TRICHOMANES, Linn.

1. **T. muscoides**, Sw. (Hook. Sp. Fil. i. p. 117, cum syn.)—C.P. 2986.
HAB. Raxawa, in the Central Province, *Prof. W. H. Harvey*; Palagalla.—Thwaites's n. 2986, Van den Bosch refers to *T. bimarginatum*, V. d. Bosch.

2. **T. proliferum**, Blume, (Hook. l. c. p. 118, t. 39 B, cum syn.)—C.P. 3329.
HAB. Ambagamowa District.

3. **T. intramarginale**, Hook. et Grev. Ic. Fil. t. 211; Hook. Sp. Fil. l. c. p. 120.—C.P. 3361.
HAB. Ambagamowa District.

4. **T. Filicula**, Bory, (Hook. l. c. p. 124, cum syn.)—C.P. 2985 (1266).
HAB. Common in the forests of the Central and Southern Provinces.

5. **T. glauco-fuscum**, Hook. l. c. p. 128, t. 40 A, cum syn.—C.P. 3330.
HAB. Ambagamowa District.

6. **T. rigidum**, Sw. (Hook. l. c. p. 133, cum syn.)—*T. obscurum*, Blume, En. Fil. Jav. p. 227.—C.P. 1396 (1174).
HAB. Upper forests of the Central Province.

Digitized by Google

ADDENDA ET CORRIGENDA.

Page

2. "**ACROTREMA,** Jack."

In descriptione, post "*Carpella*" insere: regulariter vel.

3. "**A. Walkeri,** Wight." Adde:

Var. β. *argyroneurum*; *foliis* majoribus, costa venisque superne depressis, albis.—C.P. 3831. An species distincta?

HAB. Pasdoon Corle.

5. "**Dillenia integra,** Thunb." Adde: certe *D. retusæ*, Thunb., varietas, fide speciminum ex Herb. Hort. Bot. Calcuttensis.

7. "**Goniothalamus reticulatus,** Thw." Adde: *Flores*, quoad formam coloremque, iis *G. salicini* simillimi, sed majores quam in illa specie.

8. "**Goniothalamus Walkeri,** Hook. f. et Thoms." Adde:—C.P. 3825.

HAB. Singhe-rajah Forest. Nom. vulg. "Kappooroo-gass."

Arbor parva, erecta, vix ramosa. *Cortex* rubro-nigrescens. *Folia juniora* rubentia. *Flores* rubri, sparsissime pilosuli. *Sepala* ovata, acuta, 2 lin. longa. *Petala exteriora* ovato-lanceolata, 8 lin. longa, *interiora* 5 lin. longa. *Stylus* clavatus, *stigmate* bilobo.

The fragrant roots contain camphor, and are chewed by the Cinghalese.

9. "**Xylopia nigricans,** Hook. f. et Thoms." Adde:

HAB. Trincomalie, *Rev. S. O. Glenie*. Doombera District.

9. "**UNONA,** Linn." Adde:

3. **U. elegans,** Thw.; arborea vel fruticosa, ramosissima; *foliis* parvis, anguste lanceolatis, longe acuminatis, subtus glaucis; *floribus* ut in *U. Zeylanica* sed minoribus; *carpellis* inter semina multum constrictis.—C.P. 3824.

HAB. Hinidoon Pattoo.

9. "**POLYALTHIA,** Blume." Adde:

Sect. 2.—*Carpella monosperma.*

(*Guatteria*, Hook. f. et Thoms., et hujus Enum., sed non Ruiz et Pavon.) Vide Benth. et Hook. f. Gen. Plant. p. 25.

2. **P. longifolia,** Benth. et Hook. f. l. c.—*Guatteria longifolia*, Wall., hujus Enum. p. 10.—C.P. 1041.

3. **P. suberosa,** Benth. et Hook. f. l. c.—*Guatteria suberosa*, Dun., hujus Enum. p. 10.—C.P. 1035.

4. **P. Corinti,** Benth. et Hook. f. l. c.—*Guatteria Corinti*, Dun., hujus Enum. p. 10.—C.P. 1034.

Digitized by Google

Page

5. **P. persicæfolia,** Benth. et Hook. f. l. c.—*Guatteria persicæfolia,* Hook. f. et Thoms., hujus Enum. p. 10.

6. **P. coffeoides,** Benth. et Hook. f. l. c.—*Guatteria coffeoides,* Hook. f. et Thoms., hujus Enum. p. 10.—C.P. 2503.

7. **P. acuminata,** Thw.; arborea, *ramulis petiolis*que pilosis; *foliis* majusculis, oblongis vel obovato-oblongis, rostrato-acuminatis, subglabris, ad costam canaliculatis, basi angustatis, brevipetiolatis; *floribus* caulinis, majusculis, subsolitariis vel paucis, tomentellis, longiuscule pedicellatis; *petalis* ovato-lanceolatis, acuminatis; *carpellis* ovoideis, singulis stipite subæquilongo.—C.P. 3653.

HAB. Marai-calai, near Ratnapoora.

Cortex fusco-niger, rugosus. *Folia* 6–12 poll. longa, 2½–3 poll. lata, siccitate fuscescentia; *petiolo* 3–4 lin. longo. *Pedicelli* 1–2½ poll. longi, fulvo-tomentosi, infra medium bractea parva muniti. *Flores* ochracei. *Sepala* 4 lin. longa, extus fulvo-tomentosa. *Petala* 13 lin. longa, *exteriora* 5 lin., *interiora* 6 lin. lata. *Torus* convexus, tomentosus. *Stylus* ovario piloso æquilongus. *Stigma* pilosum. *Carpella* nucis Avellanæ magnitudine, tomentosa; semine conformi, nitido, fulvo.

11. "**ALPHONSEA,** Hook. f. et Thoms." Adde:

3. **A. lutea,** Hook. f. et Thoms. Flor. Ind. p. 153, cum syn.; Roxb. Pl. Cor. t. 36.—C.P. 3826.

HAB. Reigam Corle.

Petala externe pilosa, *interiora* interne omnino, *exteriora* dimidio inferiore glabra.

11. "**Myristica Zeylanica,** Alph. DC."—Certe *M. laurifoliæ,* Hook. f. et Thoms., varietas vel forma.

13. "**Cissampelos subpeltata,** Thw.;" vix species distincta, sed inter varietates numerosas *C. Pareiræ* rectius includenda.

14. "CRUCIFERÆ." Adde:

2. **NASTURTIUM,** R. Br.

1. **N. Indicum,** Linn. (Hook. f. et Thoms. Præcurs. ad Fl. Indic. in Linn. Soc. Journ. of Proc. v. p. 138, cum syn.)—C.P. 3747.

HAB. Central Province, not common.

3. **BRASSICA,** Linn.

1. **B. juncea,** Linn. (Hook. f. et Thoms. l. c. p. 170, cum syn.)—C.P. 3772.

HAB. Common as a weed, and cultivated. Nom. vulg. "Abba."

14. "**CARDAMINE,** Linn."

"**C. hirsuta,** Linn."—Dele "var. *major*" et seq. ad "C.P. 1017," una cum "The trifoliolate variety occurs in shady woods," et adde:

2. **C. Africana,** Linn. (Hook. f. et Thoms. l. c. p. 144, cum syn.)—*C. hirsuta,* var. *major,* hujus Enum. p. 14.—C.P. 1017.

HAB. Shady woods in the more elevated parts of the Central Province.

15. "**CAPPARIS,** Linn." Adde:

11. **C. floribunda,** Wight, Illust. i. p. 35, t. 14; Walp. Rep. i. p. 199.—C.P. 3766.

HAB. Doombera District, not common.

Digitized by Google

Page

16. "**C. retusella,** Thw.;" verisimiliter *C. sepiariæ*, Linn., varietas, *carpophoro* subduplo longiore quam in forma communi illius speciei.

16. Pro "2. **PHOBEROS,** Lour." substitue:

2. **SCOLOPIA,** Spr.

Phoberos, Lour. Et adde:

1. **S. Chinensis,** Clos, in Ann. des Sc. Nat. ser. 4, viii. p. 249, cum syn. —*Phoberos Chinensis*, Lour.; *forma* arborea, trunco spinis compositis armato. *P. Arnoltianus*, Thw. in hac Enum. p. 16.—C.P. 3526.

2. **S. Gærtneri,** Thw.—*S. pusilla*, Clos, l. c. *Phob. Gærtneri*, Thw., in hac Enum. p. 17. Var. *α*.—C.P. 2497. Var. *β*.—C.P. 1076. Var. *γ*.—64 (181,211).

3. **S. acuminata,** Clos, l. c. p. 251.—*Phob. acuminatus*, Gard. MSS., hujus Enum. p. 17.—C.P. 1077.

4. **S. crassipes,** Clos, l. c.—*Phob. Hookerianus*, Wight, MSS., hujus Enum. p. 17.—C.P. 629.

18. Pro "4. **ROUMEA,** Poit.," substitue:

4. **ABERIA,** Hochst.

Roumea, Poit. Et adde:

1. **A. Gardnerii,** Clos, in Ann. des Sc. Nat. ser. 4, viii. p. 236. —*Roumea hebecarpa*, Gardner, hujus Enum. p. 18.—C.P. 1075.

22. "**POLYGALA,** Linn." Adde:

7. **P. arvensis,** Willd. (W. et A. Prod. i. p. 36, cum syn.)—*P. rosmarinifolia*, var. *α*, hujus Enum. (non W. et A.) p. 22.

Forma *a*; *foliis* obovato-oblongis, subglabris.—C.P. 715.

Forma *b*; *foliis* lineari-oblongis vel linearibus, subglabris.—C.P. 1083.

Forma *c*; tota planta sparsim rigide ciliata, *foliis* obovatis vel obovato-oblongis.—C.P. 3674.

HAB. Not very uncommon in the hotter parts of the island; forma *c*, Trincomalie, *Rev. S. O. Glenie*.

22. "**P. rosmarinifolia,** W. et A.;" dele descriptionem a "Var. *α*." ad finem, et pro ea insere:

HAB. Common in the Oova District.

Formæ *b*, *P. arvensis* valde similis, sed probabiliter distincta.

22. Dele "3. **P. elongata,** Klein," et seq. ad "et 592.)," et insere:

3. **P. glomerata,** Lour. Fl. Coch. ii. p. 426; DC. Prod. i. p. 326; Miq. Fl. Ind. Bat. i. pars altera, p. 125.—*P. densiflora*, Blume, Bijdr. p. 59.

Var. *a*. *pedunculosa*, racemis plus minus elongatis.—C.P. 592 (7, 260).

23. "**XANTHOPHYLLUM,** Roxb."

Dele "1. **X. flavescens,** Roxb. (W. et A. Prod. i. 39, cum syn.)" et insere:

1. **X. virens,** Roxb.; Fl. Ind. ii. p. 221.

23. Dele "1. **TRICHAURUS** (Arn. MSS.), W. et A.;" una cum "**T. ericoides,** Arn. MSS." et seq. ad "C.P. 1251." Et insere:

Digitized by Google

Page

1. **TAMARIX,** Linn.

1. **T. Gallica,** Linn. (W. et A. Prod. i. p. 40, cum syn.)—*T. Indica,* Willd.—C.P. 1254.

23. "**PORTULACA,** Tourn." Adde:

4. **P. tuberosa,** Roxb. (W. et A. Prod. i. p. 356, cum syn.)—C.P. 3638.

HAB. South of the island.

26. "2. **Pavonia Zeylanica,** Cav." Adde: C.P. 3461.

HAB. Trincomalie, *Rev. S. O. Glenie*; Colombo, *Mr. W. Ferguson.* Et dele:

"I have not met," et seq. ad annotationis finem.

26. "**HIBISCUS,** Linn." Adde:

8. **H. lunarifolius,** Willd. (W. et A. Prod. i. p. 49, cum syn.)—C.P. 3634.

HAB. Doombera District.

9. **H. cannabinus,** Linn. (W. et A. Prod. i. p. 50, cum syn.)—C.P. 3833.

HAB. Near Trincomalie, *Rev. S. O. Glenie.*

27. "**ABUTILON,** Dill." Adde:

6. **A. crispum,** G. Don. (W. et A. Prod. i. p. 56, cum syn.)—C.P. 3646.

HAB. Colombo, *Mr. W. Ferguson.*

Abutilon (*Sida,* DC.) *Leschenaultianum,* C.P. 3521, occurs as a weed in the Botanic Garden, but I have never found it truly wild.

30. Dele "6. **KYDIA,** Roxb." Et insere:

6. **DICELLOSTYLES,** Benth.

Benth. et Hook. f. Gen. Plant. p. 207. Et adde:

1. **D. axillaris,** Benth. l. c.—*Kydia axillaris,* Thw. in hac Enum. p. 30.—C.P. 3126.

Petala pollicaria, oblonga, subspathulata, parum obliqua, ochraceo-rufescentia, versus basin rubra.

31. "**CORCHORUS,** Linn." Adde:

5. **C. fascicularis,** Lam. (W. et A. Prod. i. p. 72, cum syn.)—C.P. 3773.

HAB. Colombo, *Mr. W. Ferguson.*

6. **C. tridens,** Linn. (W. et A. Prod. i. p. 73, cum syn.)—C.P. 3791.

HAB. Trincomalie, *Rev. S. O. Glenie.*

31. "**TRIUMFETTA,** Plum." Adde:

1. **T. pilosula,** Thw.; erecta, *ramis* scabriusculis; *foliis caulinis* rotundatis, parum trilobis, grosse crenatis, sparse pilosulis, subtus pallidioribus, basi acutis, 3- vel sub-5-nerviis, *floralibus* lanceolatis, utrinque acuminatis; *petiolo* elongatulo; *cymulis* densis, oppositifoliis; *sepalis* linearibus, apice cucullatis mucronatisque, externe pilosis; *petalis* calyce æquilongis; staminibus circiter 6,

Digitized by Google

Page

filamentis glabris; *ovario* 4-loculari; *capsula* pilosula, echinulis suberectis, uncinatis, fere ad apicem arcte ciliatis.—C.P. 2901.

HAB. Trincomalie, *Rev. S. O. Glenie.*

31. "GREWIA, Juss." Adde:

8. **G. rotundifolia,** Juss. (W. et A. Prod. i. p. 80, cum syn.)—C.P. 3785.

HAB. Trincomalie, *Rev. S. O. Glenie.*

33. "**Dipterocarpus Zeylanicus,** Thw." Adde: (C.P. 2398.)

34, lin. 10 ab imo. Dele: "*D. turbinatus,* Roxb., cultivated in Ceylon, is C.P. 2398."

34. "DOONA, Thw." Adde:

8. **D. macrophylla,** Thw.; glabra; *foliis* majusculis, oblongis, obtuse acuminatis, ad costam canaliculatis, basi rotundatis, petiolatis; *paniculis* axillaribus terminalibusque, apertis, folio subæquilongis; *pedicellis* calycem subæquantibus; *calycis* fructiferi (immaturi) laciniis obovato-oblongis.—C.P. 3713.

HAB. Hinidoon Pattoo.

Arbor magna. *Folia* firma, 5–8 poll. longa, 3 poll. lata, minutissime parallelim venulosa, venis primariis utrinque circiter 13, *petiolo* ½–1 poll. longo. *Petala* oblonga, 4 lin. longa, externe et interna margine superiore pilosa.

9. **D. ovalifolia,** Thw.; glabra; *foliis* ovalibus, obtuse rostrato-acuminatis, superne subeveniis, subtus costa venis primariisque prominentibus, basi rotundatis, petiolatis; *paniculis* axillaribus terminalibusque, racemiformibus, paucifloris, folio brevioribus vel subæquilongis; *pedicellis* calycem subæquantibus.—C.P. 3711.

HAB. Saffragam District.

Arbor magna. *Folia* (acumina 4 lin. longa) 1½–3 poll. longa, ¾–1¼ poll. lata, venis primariis utrinque circiter 8, *petiolo* 3 lin. longo.

10. **D. venulosa,** Thw.; glabra; *foliis* oblongis vel ovato-oblongis, obtuse rostrato-acuminatis, superne creberrime et valde prominentim venulosis, ad costam canaliculatis, basi sub-5-plinerviis, rotundatis, petiolatis.—C.P. 3675.

HAB. South of the island.

Arbor magna, *ramulis* nigrescentibus. *Folia* 2–3 poll. longa, 1–1½ poll. lata, venis primariis utrinque circiter 7, petiolo 5–7 lin. longo. *Inflorescentiam* nondum vidi.

35. "**Doona affinis,** Thw.," adde: (C.P. 3712).

36. "SHOREA, Roxb." Adde:

3. **S. lissophylla,** Thw.; glabra; *foliis* ovatis vel ovato-rotundatis, abrupte breviter rostratis, obtusis, basi latis, rotundatis vel subcordatis, *petiolo* brevi; *paniculæ* ramis glabris; *pedicellis* brevissimis et cum alabastris minute incano-pubescentibus.—C.P. 3407.

HAB. Hinidoon Pattoo and Singhe-rajah Forest.

Arbor ingens, *ramulis* nigrescentibus. *Folia* 3–5 poll. longa, ½–3 poll. lata, venis primariis utrinque circiter 7, his cum costa superne parum depressis, subtus prominentibus, venulis inconspicuis, *petiolo* semipollicari, ruguloso. *Panicula* multiflora. *Antheræ* barbatæ.

Digitized by Google

Page
36. "**HOPEA,** Roxb." Adde:

2. **H. jucunda,** Thw.; glabra; *foliis* ovatis vel ellipticis, longe rostrato-acuminatis, obtusis, basi rotundatis vel parce angustatis, petiolatis, *venis primariis* utrinque 4 et subtus ad axillas sæpius glanduliferis; *paniculis* axillaribus terminalibusque, folio æquilongis vel longioribus; *corolla* externe albido-pilosa.—C.P. 3709.

Forma foliis minoribus.—C.P. 3710.

HAB. Hinidoon Pattoo, Pasdoon Corle, and Saffragam.

Arbor magna, *ramulis* teretibus, nigrescentibus. *Folia* 1½–5 poll. longa, 1–2½ poll. lata, *costa* venis primariisque subtus prominentibus, venulis parum conspicuis, *petiolo* 2½–4 lin. longo. *Flores* iis *H. discoloris* simillimi.

36. "**VATERIA,** Linn." Adde post descriptionem *V. Indicæ:*

Sect. 2.—*Stamina* 15, *biserialia* (Stemonoporus, *Thw.*).

2. **V. (Stemonoporus) Wightii,** Benth. in Benth. et Hook. f. Gen. Plant. p. 194.—*Stemonoporus Wightii,* Thw. in hac Enumeratione, p. 37.—C.P. 3415.

3. **V. (Stemonoporus) Gardneri,** Benth. l. c. — *Stemonoporus Gardneri,* Thw. in hac Enum. p. 38.—C.P. 1920.

4. **V. (Stemonoporus) acuminata,** Thw.; *foliis* lanceolatis vel oblongo-lanceolatis, reticulato-venulosis, gradatim (rarius subito) valde acuminatis, basi rotundatis, longiuscule petiolatis; *paniculis* folio brevioribus, racemiformibus vel parce ramosis; *bracteis* minutis, deciduis; *calycis* laciniis ovato-lanceolatis.—C.P. 3595, 3687 (3474).

HAB. Madamahanewera, Ambagamowa, and Badulla districts.

Arbor magna, *ramulis* parce rugosis, rubro-nigrescentibus. *Folia* 4–7 poll. longa, ¾–2 poll. lata, venis primariis utrinque 10–16, *petiolo* ¾–1¼ poll. longo. *Stipulæ* falcato-lanceolatæ, 8 lin. longæ, ¼ lin. latæ, cito deciduæ.

5. **V. (Stemonoporus) affinis,** Benth. l. c.—*Stemonoporus affinis,* Thw. in hac Enum. p. 38.—C.P. 2430.

6. **V. (Stemonoporus) lanceolatus,** Benth. l. c.—*Stemonoporus lanceolatus,* Thw. in hac Enum. p. 38.—C.P. 2658.

7. **V. (Stemonoporus) canaliculata,** Benth. l. c.—*Stemonoporus canaliculatus,* Thw. in hac Enum. p. 38.—C.P. 3413.

8. **V. (Stemonoporus) petiolaris,** Benth. l. c.—*Stemonoporus petiolaris,* Thw. in hac Enum. p. 38.—C.P. 3151.

9. **V. (Stemonoporus) rigida,** Benth. l. c.—*Stemonoporus rigidus,* Thw. in hac Enum. p. 38.—C.P. 2645.

10. **V. (Stemonoporus) oblongifolia,** Benth. l. c.—*Stemonoporus oblongifolius,* Thw. in hac Enum. p. 38.—C.P. 2646.

11. **V. (Stemonoporus) reticulata,** Benth. l. c.—*Stemonoporus reticulatus,* Thw. in hac Enum. p. 38.—C.P. 3414.

12. **V. (Stemonoporus) nitida,** Benth. l. c.—*Stemonoporus nitidus,* Thw. in hac Enum. p. 39.—C.P. 3483.

Species dubiæ hujus Sectionis.

13. **V. (Stemonoporus) Moonii,** Benth. l. c.—*Stemonoporus (?) Moonii,* Thw. in hac Enum. p. 39.—C.P. 1792.

Digitized by Google

Page

14. **V. (Stemonoporus) disticha,** Thw.; *ramulis* teretibus, fulvo-tomentellis; *foliis* coriaceis, oblongis, rostrato-acuminatis, ad costam canaliculatis, basi rotundatis, petiolatis; *paniculis* axillaribus terminalibusque, glabris, *junioribus* imbricato-bracteatis; *bracteis* majusculis, distichis, late ovatis, adpresse fulvo-pilosis.—C.P. 3707.

HAB. Hinidoon Pattoo and Pasdoon Corle.

Arbor ingens. *Folia* circiter 5 poll. longa, 1½–2 poll. lata, delicatule parallelim venulosa, venis primariis utrinque circiter 12, *petiolo* 4 lin. longo.

15. **V. (Stemonoporus) scabriuscula,** Thw.; *ramulis* tomentoso- vel scabriusculo-lepidotis; *foliis* oblongo-lanceolatis, acuminatis, superne glabris, ad costam canaliculatis, subtus (cum petiolo) scabriusculo-lepidotis vel subglabris, venis primariis numerosis, versus marginem arcuato-anastomosantibus; *paniculis* axillaribus terminalibusque, tomentoso-lepidotis, *junioribus* bracteatis; *bracteis* alternis, ovato-acuminatis.—C.P. 3708 (3452).

HAB. Hinidoon Pattoo and Pasdoon Corle.

Arbor ingens. *Folia* 3–10 poll. longa, 1–2½ poll. lata, *petiolo* 5–7 lin. longo. *Stipulæ* 5 lin. longæ, 1 lin. latæ, falcatæ, cito deciduæ. *Bractæ* 3 lin. longæ, tomentoso-lepidotæ.

Sect. 3.—*Stamina* 5, *uniserialia* (Monoporandra, *Thw.*).

16. **V. (Monoporandra) cordifolia,** Thw.—*Monoporandra*, hujus Enum. p. 39.—C.P. 2647.

17. **(V. Monoporandra) elegans,** Thw.—*Monoporandra*, hujus Enum. p. 39.—C.P. 371.

18. **V. (Monoporandra) lancifolia,** Thw.—*Monoporandra*, hujus Enum. p. 39.—C.P. 3412.

37. Pro "6. **ISAUXIS**, Arn.," substitue:

6. **VATICA**, Linn.

Sect. *calycis fructiferi laciniæ subæqualis* (Isauxis, *Arn.*).

1. **V. (Isauxis) Roxburghiana,** Benth. in Benth. et Hook. f. Gen. Plant. p. 192.—*Isauxis Roxburghiana*, Wight, Illust. p. 88; Icon. Pl. Ind. Or. t. 26.—C.P. 604.

HAB. South of the island. Nom. vulg. "Mandora-gass."

2. **V. (Isauxis) affinis,** Thw.; *foliis* oblongo-lanceolatis, acuminatis, utrinque glabris et prominentim crebre reticulato-venulosis, venis primariis utrinque 5–7, basi parum rotundatis, petiolatis; *paniculis* axillaribus terminalibusque, *folio* brevioribus; *pedunculi ramis* nigrescentibus parce, *pedicellis alabastrisque* dense pallide fulvo-lepidotis.—*Isauxis Roxburghiana*, hujus Enum. p. 37 (haud Wight).—C.P. 3416.

HAB. Hinidoon Pattoo and Pasdoon Corle.

Arbor ingens, *ramulis* nigrescentibus. *Folia* semipedalia, *petiolo* pollicari, nigrescente. *Calycis* laciniæ acutissimæ.

Ab hac specie *V. (Is.) Roxburghiana* differt ramulis, *petiolis* paniculisque pallidis lepidotisque, *foliis* plures venas primarias (utrinque circiter 10) habentibus et subtus lepidotis.

3. **? V. (Isauxis) cordifolia,** Thw.; glabra; *ramulis* teretibus; *foliis* nitidis, oblongo- vel ovato-lanceolatis, acuminatis, obscure et

Digitized by Google

Page

minute reticulato-venulosis, basi rotundato-cordatis, petiolatis; *venis primariis* utrinque circiter 7, ad axillas sæpe glanduliferis.—C.P. 3726.

HAB. Atakalan Corle.

Arbor ingens. *Folia* 5–7 poll. longa, 2–3½ poll. lata, *petiolo* pollicari. *Inflorescentiam* nondum vidi.

40. Pro "1. **CLEYERA,** Thunb.," substitue:

1. **TERNSTRŒMIA,** Linn. f.

Cleyera, Thunb.

Et adde:

1. **T. gymnanthera,** Benth. in Benth. et Hook. f. Gen. Plant. p. 182.—*Cleyera gymnanthera,* W. and A., hujus Enum. p. 40.—C.P. 778 (779).

2. **T. emarginata,** Benth. l. c.—*Cleyera emarginata,* Gardn.; hujus Enum. p. 40.—C.P. 782.

41. Pro "3. **SAROSANTHERA,** Korthals," substitue:

3. **ADINANDRA,** Jack.

Sarosanthera, Korthals.

Et adde:

1. **A. lasiopetala,** Benth. l. c.—*Sarosanthera lasiopetala,* Thw. in hac Enum. p. 41.—C.P. 775 (776, 783).

43. Pro "7. **STEMONURUS,** Bl.," substitue:

7. **LASIANTHERA,** P. de Beauv.

Stemonurus, Bl. (*ex parte*). *Urandra,* Thw.

Et adde:

1. **L. apicalis,** Benth. in Benth. et Hook. f. Gen. Plant. p. 350.—*Stemonurus apicalis,* Thw. in hac Enum. p. 43.—C.P. 2569.

44. Pro "8. **PLATEA,** Blume," cum syn., substitue:

8. **GOMPHANDRA,** Wall.

Platea, Miers, Thw. (haud Blume). *Stemonurus,* Miers (partim).

Et adde:

1. **G. axillaris,** Wall.—*Platea axillaris,* Thw. in hac Enum. cum syn.—C.P. 251 (762).

2. **G. coriacea,** Wight.—*Platea coriacea,* Thw. in hac Enum. cum syn.—C.P. 375.

44. "**ATALANTIA,** Corr." Adde:

2. **A. racemosa,** W. et A. Prod. i. p. 91; Oliver, in Linn. Soc. Journ. of Proc. v. Supp. ii. p. 24.—C.P. 3673.

HAB. Galagama, *Gardner.*

3. **A. Ceylanica,** Oliv. l. c. p. 25, cum syn.—*Sclerostylis Ceylanica,* Wight, hujus Enum. p. 46.—C.P. 1196.

Var. β. *rotundifolia.*—*Scl. rotundifolia,* Thw. in hac Enum. p. 46.—C.P. 3295.

4. **A. Missionis,** Oliv. l. c.—*Limonia Missionis,* Wight, hujus Enum. p. 45.—C.P. 1194.

Digitized by Google

Page

45. "**GLYCOSMIS**, Corr."

Pro "**G. arborea**, DC.," et "**G. pentaphylla**, DC.," substitue:

G. pentaphylla, Corr. (Oliv. l. c. p. 37).—*G. arborea*, DC.—C.P. 1192, 180. Et adde:

Subvar. *longifolia*, Oliv. l. c.; *foliis* sæpius unifoliolatis.—C.P. 3822.

HAB. Singhe-rajah Forest.

45. "**MURRAYA**, Kœnig." Adde:

3. **M. Glenieii**, Oliv. l. c. p. 29.—C.P. 3627.

HAB. Trincomalie, *Rev. S. O. Glenie.*

Ovarium 5- vel 4-loculare, *ovulis* solitariis vel geminatis, superimpositis. Cæteroquin *M. exoticæ*, var. *a*, valde similis et forsan ejusdem varietas, *Oliv.*

3. **M. Kœnigii**, Spr. (Oliv. l. c. p. 29).—*Bergera Kœnigii*, Linn., hujus Enum. p. 46.—C.P. 2547.

47. "**CLAUSENA**, Burm."

"**C. Willdenovii**, W. et A." Adde:

Forma pubescens.—*C. pubescens*, W. et A., hujus Enum. p. 47.—C.P. 2546.

Adde:

3. **C. Indica**, Oliv. l. c. p. 36, cum syn.—*Piptostylis Indica*, Kze. Misc. iii. p. 33, t. 2. *Bergera nitida*, Thw. in hac Enum. p. 46.—C.P. 2421, 1203.

47. "**PARAMIGNYA**, Wight." Adde:

2. **P. armata**, Oliv. l. c. p. 43.—*Arthromischus armatus*, Thw. in hac Enum. p. 47.—C.P. 1197, 3115.

47. Dele "**Luvunga scandens**, Ham.," cum descriptione.

48. "**GARCINIA**, Linn." Adde:

4. **G. Zeylanica**, Roxb. Fl. Ind. ii. p. 621.

HAB. Ceylon, *Roxburgh.*

Species mihi ignota, nisi, ut suspicor, forma est *G. Cambogiæ.*

5. **G. (Discostigma) terpnophylla**, Thw.—*Terpnophyllum Zeylanicum*, Thw. in hac Enum. *Discostigma Zeylanicum*, Planchon et Triana, in Ann. des Sc. Nat. ser. 4, xiv. p. 364.—C.P. 2695.

Var. *β. acuminata.*—*Discostigma acuminatum*, Planch. et Triana, l. c.—C.P. 3400.

50. "**MESUA**, Linn."

"**M. ferrea**, Linn., var. *a*," adde ut synon.: *M. Walkeriana*, Planch. et Trian. l. c. xv. p. 301. "Var. *β*," adde ut synon.: *M. salicina*, Planch. et Trian. l. c. p. 300.

50. Pro "2. **M. speciosa**, Chois." cum tota descriptione, substitue duas species sequentes:

2. **M. Thwaitesii**, Planch. et Trian. l. c. p. 305.—*M. speciosa*, hujus Enum. var. *a* (haud Choisy).—C.P. 2675.

HAB. Damp forests, especially on the banks of streams, in the Ambagamowa, Saffragam, and Hinidoon districts.

Digitized by Google

Page

4. **M. sclerophylla,** Thw.; *foliis* valde coriaceis, subeveniis, lanceolatis vel oblongo-lanceolatis, acuminatis, subtus dense albo-pruinosis, basi rotundatis; *floribus* mediocribus, axillaribus terminalibusque, ad apicem pedunculi brevis (in meis specim.) solitariis; *calyce* glabro.—*M. speciosa,* var. β, hujus Enum.—C.P. 603.

HAB. Reigam Corle.

Arbor magna. *Folia* 3–4 poll. longa, ¾–2 poll. lata, *petiolo* 2–3 lin. longo.

50. Pro "3. **M. Coromandelina,** Wight, Icones, t. 117; Illust. i. 127.—C.P. 3404," substitue:

3. **M. pulchella,** Planch. et Trian. l. c. p. 307.—*M. Coromandelina* hujus Enum. (haud Wight).—C.P. 3404.

50. "**Kayea stylosa,** Thw." Adde ut synonyma: *K. cuspidata,* Planch. et Trian. l. c. p. 296.

51. "**CALOPHYLLUM,** Linn." Adde:

10. **C. cordato-oblongum,** Thw.; *ramulis* tetragonis, glabris (*junioribus* cum petiolis pedunculisque fugaci-ferrugineo-pilosis); *foliis* oblongis, obtusis, basi parum angustatis, cordatis, brevipetiolatis; *paniculis* terminalibus, folio subæquilongis; *pedicellis* alabastrisque subæquilongis pallide fulvo-tomentosis; *sepalis* 4, 2 interioribus majoribus et petaloideis; *petalis* 4.—C.P. 3823.

HAB. Hinidoon Pattoo. Floret Septembre.

Arbor ingens. *Folia* 4–6 poll. longa, 2–3 poll. lata, venis parallelis utrinque parum prominentibus, *petiolo* 2–3 lin. longo. *Petala* orbicularia, semipollicaria.

51. Pro "2. **C. decipiens,** Wight, Illust. i. 128; Icones, t. 106.—C.P. 3403," substitue:

2. **C. Thwaitesii,** Planch. et Trian. in Ann. des Sc. Nat. ser. 4, XV. p. 260.—*C. decipiens* hujus Enum. (haud Wight).—C.P. 3403.

Antheræ fere dimidio breviores quam in *C. decipiente,* Wight. *Fructus* sphæricus.

51. "**C. cuneifolium,** Thw." In floribus hujus speciei, cl. Planch. et Triana 4–8 petala invenerunt.

53. "**SALACIA,** Linn." Adde:

5. **S. terminalis,** Thw.; arborea, glabra; *ramulis* rugosulis; *foliis* ovatis vel ellipticis, acuminatis, versus apicem remote serrulatis, basi parum acutatis, petiolatis; *paniculis* ad apices ramulorum, axillaribus terminalibusque, plurifloris, folio longioribus.—C.P. 3737.

HAB. Hikkudoowe, near Galle.

Arbor 30-pedalis, ramosissima. *Folia* 3–4½ poll. longa, 1½–3 poll. lata, superne sublævia, subtus reticulato-venosa, venis primariis utrinque circiter 6, *petiolo* semipollicari. *Pedicelli* alabastro duplo longiores. *Flores* 3–3½ lin. in expan. *Calycis* segmenta brevia, rotundata vel subacuta. *Petala* orbicularia, unguiculata, reflexa. *Stamina* 3, filamentis cum ovario connatis. *Fructum* nondum vidi.

53. "**S. diandra,** Thw." Pro "*calycis segmentis* triangularibus," substitue: quam calycis segmenta triangularia.

Digitized by Google

Page
55. **SCHMIDELIA,** Linn. Adde:

6. **S. varians,** Thw.—*S. allophylla,* var. *β,* hujus Enum. p. 55. —C.P. 562.

A *S. allophylla* differt *foliis* minoribus, *racemis* multo longioribus, *bracteis* minutissimis et brevissime pilosis.

56. Adde: 3 *a*. **GLENNIEA,** Hook. f.

(Benth. et Hook. Gen. Plant. p. 404.)

1. **G. Zeylanica,** Hook. f. l. c.

Var. *a*; *foliis* bifoliolatis.—*Sapindus unijugus,* Thw. in hac Enum. p. 56.—C.P. 2465.

Var. *β*; *foliis* 2–4-foliolatis.—*Nephelium fuscatum,* Thw. in hac Enum. p. 58. *Sap. Glenieii,* Thw. MSS.—C.P. 3676.

HAB. Var. *a*, Hewahetti District, at an elevation of 3000 to 4000 feet. Var. *β*. Trincomalie, *Rev. S. O. Glenie.*

56. "**Hemigyrosa canescens,** Thw." Adde:

Fructus subsphæricus, sæpe abortu monospermus, tomentosus, ochraceus, pulposus; *epicarpio* pergamentaceo; *putamine* tenui, cartilagineo, interne adpresse piloso. *Semina* oblonga, testa tenui castanea. *Arillus* 0.

57. Adde: 6 *a*. **POMETIA,** Forst.

Irina, Blume. *Eccremanthus,* Thw. in Kew Journ.

1. **P. eximia,** Hook. f. in Benth. et Hook. Gen. Plant. p. 407.—*Nephelium eximium,* Thw. in hac Enum. p. 57, cum syn.—C.P. 1153.

6 *b*. **EUPHORIA,** Juss.

Hook. f. in Benth. et Hook. Gen. Plant. p. 406.

1. **E. Longana,** Bot. Mag. t. 4096.—*Nephelium Longanum,* Camb., hujus Enum. p. 58, cum syn.—C.P. 1152.

2. **E. Gardneri,** Hook. f. l. c.—*Nephelium Gardneri,* Thw. in hac Enum. p. 58.—C.P. 1154.

58. "**Nephelium fuscatum,** Thw.," est **Glenniea Zeylanica,** Hook. f., var. *β* (vide supra). *Petala* minuta, decidua.

58. Pro "8. **PTERIDOPHYLLUM,** Thw.," substitue:

8. **FILICIUM,** Thw., Benth. et Hook. f.

Et hinc (p. 59) pro "**P. decipiens,** Thw.," substitue: **F. decipiens,** Thw.

NOTA. Genus *Filicium,* fide cl. Hook. f., ad *Burseraceas* recte, ut nunc censeo, referendum est.

59. "**MELIOSMA,** Blume."

Hoc genus, fide cl. Hook. f., ad **SABIACEAS** transferendum. Vide Benth. et Hook. f. Gen. Plant. p. 414.

59. "**MELIA,** Linn." Adde:

2. **M. Azedarach,** Linn. (W. et A. Prod. i. p. 117, cum syn.)—HAB. Near Batticalva, *Rev. S. O. Glenie.*

Digitized by Google

Page

60. "**AMOORA**, Roxb." Adde:

2. **A. Championii**, Hook. f. in Benth. et Hook. f. Gen. Plant. i. p. 335.—*Dysoxylon Championii*, Hook. f. et Thoms., hujus Enum. p. 61.—C.P. 1193.

60. "**Dysoxylon macrocarpon**, Blume, var. β." Adde: C.P. 3596.

64. "**OXALIS**, Linn." Adde:

2. **O. sensitiva**, Linn.—*Biophytum sensitivum*, DC., et *B. nervifolium*, hujus Enum. p. 64.—C.P. 1190, 2784.

Var. β. *caule* elongato, ramoso.—*B. nudum*, Arn., et *B. proliferum*, var. β, hujus Enum. p. 64.—C.P. 6, 464, 2419.

Var. γ. *prolifera, foliolis* minoribus.—*B. proliferum*, Arn., hujus Enum. p. 64.—C.P. 2418.

HAB. Very abundant. Var. β and γ in the more elevated parts of the island.

Flores dimorphi. *Stamina* utriusque formæ 10, alterna *filamentis* multo brevioribus: *forma a, stylosa; stylis* erectis elongatis, filamenta longa superantibus: *forma b, staminea; stylis* recurvis, filamenta breviora parum excedentibus.

66. "**Impatiens Walkeri**, Hook." Adde, post "6000 feet:" A variety with yellow flowers has been found at Happootelle, by Mr. W. H. Wright.

69. Adde: 1/1. **EVODIA**, Forst.

1. **E. triphylla**, DC. Prod. i. p. 724.—*Xanthoxylon triphyllum*, Juss., hujus Enum. p. 69.—C.P. 538, 2501.

69. Pro "3. **CYMINOSMA**, Gærtn.," substitue:

3. **ACRONYCHIA**, Forst.

Jambolifera, Linn. *Cyminosma*, Gærtn. Et adde:

1. **A. pedunculata**, Walp. Rep. i. p. 523.—*Cyminosma pedunculata*, DC., hujus Enum. p. 69.—C.P. 1249.

70. "**Ochna cordata**, Thw." Certe forma solum *O. squarrosæ*, Linn., et, ut species, delenda.

72. "**KURRIMIA**, Wall., Arnott." Adde, ut synonyma:

Pyrospermum, Miq.

72. Pro "5. **CATHA**, Försk.," substitue:

5. **GYMNOSPORIA**, W. et A., Benth. et Hook. f.

Catha, Endl. (non Försk.). Et adde:

1. **G. emarginata**, W. et A. Prod. i. p. 160.—*Catha emarginata*, G. Don, hujus Enum. p. 72.—C.P. 1235.

2. **G. fruticosa**, Hook. f. in Benth. et Hook. f. Gen. Plant. p. 365.—*Catha fruticosa*, Thw. in hac Enum. p. 72.—C.P. 3386.

Digitized by Google

Page

74. Pro "2. **BERCHEMIA,** Neck.," substitue:

2. **SAGERETIA,** Brongn. Et adde:

1. **S. affinis.**—*S. costata,* Miq. Fl. Ind. Bat. i. p. 645. *Rhamnus affinis,* Blume, Bijd. p. 1140 (fid. Miq. l. c.) *Berchemia parviflora,* hujus Enum. p. 74 (haud Wall.).—C.P. 2477.

76. "**Semecarpus Gardneri,** Thw." Dele "2940."

76. "**Semecarpus obscura,** Thw." Adde: C.P. 2940; et

"A *S. Gardneri,* Thw., *foliis* magis coriaceis et *drupis* erectis nec valde obliquis præcipue differt."

76. "**Semecarpus oblongifolia,** Thw." Adde:

Var. β. *nigro-viridis; floribus drupis*que majoribus.—*S. nigro-viridis,* Thw. in hac Enum. p. 76.—C.P. 631, 2444 (641, 2586).

Var. γ. *acuminata; foliis drupis*que acuminatis.—*S. acuminata,* Thw. in hac Enum. p. 76.—C.P. 2676.

78, 79. Genera "**PROTIUM,** Burm.," "**CANARIUM,** Linn.," et "**SCUTINANTHE,** Thw." (ut **CANARII** Sectio), fide cl. Benth. et Hook. f., ad **BURSERACEAS** transferenda.

79. Pro "1. **BLACKWELLIA,** Comm.," substitue:

1. **HOMALIUM,** Jacq.

Sect. *Blackwellia.* Et adde:

1. **H. Ceylanicum,** Benth. in Linn. Soc. Journ. of Proc. iv. p. 35. —*Blackwellia Ceylanica,* Gardn., hujus Enum. p. 79.—C.P. 388.

80. Adde: 3. **ELLIPANTHUS,** Hook. f.

Benth. et Hook. f. Gen. Plant. p. 434.

1. **E. unifoliolatus,** Hook. f. l. c.—*Connarus unifoliatus,* Thw. in hac Enum. p. 80.—C.P. 2443.

81. **CROTALARIA,** Linn. Adde:

23. **C. triquetra,** Dalz. in Hook. Journ. of Bot. ii. (1850), p. 34. —C.P. 3832.

HAB. Peradenia, rare.

81. "**C. evolvuloides,** W. et A." Adde: C.P. 3593.

81. Dele "5. **C. bifaria,** Linn.," cum descriptione tota, et in ejus loco insere:

5. **C. globosa,** Wight. (W. et A. Prod. i. p. 190; Walp. Rep. i. p. 587.)—C.P. 3736.

HAB. Trincomalie, *Rev. S. O. Glenie.*

82. "**C. striata,** DC." Pro "C.P. 3608," substitue: C.P. 3810, et adde:

Var. β; *foliis* firmioribus, acutis; *racemis* minus elongatis; *seminibus* majoribus.—C.P. 3608.

HAB. Colombo, *Mr. W. Ferguson;* var. β, common in the Kandian district.

Legumina pendula, brevi-stipitata, glabra, cylindrica, parum falcata clavaue, *seminibus* numerosis 30–40, lævia, nitida, pallide brunnea.

Digitized by Google

Page
83. **"INDIGOFERA,** Linn." Adde:

13. **I. pentaphylla,** Linn. (W. et A. Prod. i. p. 200, cum syn.)—
—C.P. 3524.
HAB. Near Colombo, *Mr. W. Ferguson.*

14. **I. tinctoria,** Linn. (W. et A. Prod. i. p. 202, cum syn.; Wight, Ic. t. 365.)—C.P. 3591.
HAB. Hotter parts of the island.

83. Pro "**I. cuneaphylla,**" substitue: **I. enneaphylla.**

83. "**I. flaccida,** Kœnig." Adde:
Var. β. *constricta;* robustior, *foliis* majoribus, sæpius 9-foliolatis; *calycis* segmentis brevioribus, acutis, nec subulatis; *legumine* crassiore, suberecto, curvato, parum tetraquetro, marginibus parum incrassato, 4–6-spermo, inter semina constricto; *seminibus* majoribus. An *I. Kleinii,* W. et A.?—C.P. 3811.
HAB. Matelle, East.

84. **"TEPHROSIA,** Pers." Adde:

7. **T. spinosa,** Pers. (W. et A. Prod. i. p. 214, cum syn.)
HAB. North of the island, *Mr. W. Ferguson.*

85. "**Uraria crinita,** DC." Adde:
In hortis culta, vix indigena.

86. **"DESMODIUM,** DC." Adde:

13. **D. jucundum,** Thw.; fructicosum, *ramulis junioribus, petiolis foliis*que subtus albido-sericeis; *foliis* pinnatim trifoliolatis; *foliolis* firmis, ellipticis vel obovatis, retusis, mucronulatis, *venis primariis* utrinque 6–14, subtus prominentibus; *racemis* terminalibus, plurifloris, sæpe valde elongatis; *pedicellis* geminis; *calycis* segmentis acuminatis, ciliatis; *legumine* lineari, complanato, parum constricto, rostrato, circiter 4-spermo, pilosulo, prominentim reticulato, articulis dimidio longioribus quam latis.—C.P. 3778.
HAB. Lakkaigalla and Ettangwella in the Matelle District, *A. Oswald Brodie, Esq.*

Frutex 3–4-pedalis, *ramis* rubro-nigrescentibus. *Folia petiolo* pollicari, *foliolis* 1–3½ poll. longis, ¾–1¾ poll. latis, *petiolulo* 1–2 lin. longo. *Stipulæ* late lanceolatæ, acuminatæ, pilosulæ, basi latæ obliquæque, 5 lin. longæ. *Stipellæ* subulatæ, 1–2 lin. longæ. *Pedunculi* tomentelli. *Pedicelli* 4 lin. longi, pilosi. *Petala* rubro-purpurea. *Legumen* ¾–1 poll. longum, 1½ lin. latum.
A *D. concinno,* DC., cui valde similis, hæc species differt ramulis foliisque magis sericeis et his firmioribus, latioribus retusisque.

14. **D. Gangeticum** DC. (W. et Arn. Prod. i. p. 225, cum syn.)
—C.P. 3813.
HAB. Matelle, East.

87. "**D. polycarpon,** DC., var. β." Adde, ut synonyma: *D. trichocaulon,* DC.

87. Adde: 21/1. **HEDYSARUM,** Jeaume.

1. **H. mucronatum,** Blume, Cat. Buit. p. 93; Walp. Rep. i. p. 746.—C.P. 3544.

Digitized by Google

Page

HAB. Rathoongodde, in the Maturatte District; a common weed in the Botanic Garden.

21/2. **ELEIOTIS**, DC.

1. **E. sororia,** DC. Prod. ii. p. 348; W. et A. Prod. i. p. 231, cum syn.—C.P. 3765.
HAB. Near Colombo, *Mr. W. Ferguson.*

87. "**ALYSICARPUS,** Neck." Adde:

5. **A. monilifer,** DC. (W. et A. Prod. i. p. 232, cum syn.)—C.P. 3613.
HAB. Near Colombo, *Mr. W. Ferguson.*

6. **A. longifolius,** W. et A. l. c. p. 233, cum syn.—C.P. 3814.
HAB. Near Colombo, *Mr. W. Ferguson.*

88. Adde: 29/1. **DIOCLEA,** H. B. K.

1. **D. Fergusonii,** Thw.; alte scandens, molliter fulvo-pubescens; *foliolis* ovatis vel ovato-lanceolatis, obtusiusculis, mucronatis, basi rotundatis, lateralibus parum obliquis; *stipulis* auriculæformibus, medio affixis glandulosisque, superne lanceolatis, acutis; *paniculis* racemiformibus, multifloris, elongatis, ramis brevibus 2–3-floris apice incurvatis glandulosis; *bracteis* longiusculis, anguste lanceolatis, sulcatis, recurvis; *legumine* majusculo, 1–3-spermo, sutura superiore anguste bialata; *seminibus* orbicularibus, complanatis, hilo lineari et valde elongato.—C.P. 3817.
HAB. Near Colombo, *Mr. W. Ferguson.*

Folia (cum *petiolo* 2–3 poll. longo) 9–12 poll. longa. *Foliola* 4–6 poll. longa, 2½–5 poll. lata, *petiolulo* circiter 2 lin. longo. *Stipulæ* 3–4 lin. longæ. *Flores* pollicares. *Calyx lacinia superiore* lata, ad apicem bifida, *lateralibus* acutis, falcatis, *inferiore* parum longiore et apice retusa. *Bracteolæ* 2, ad basin calycis, parvæ, rotundatæ. *Petala* pallida, violacea. *Ovarium* pilosum, 2–3-ovulatum. *Stigma* parvum, parum dilatatum. *Discus* brevis, tubulosus, margine 10-crenato. *Legumen* oblongum, subfalcatum, 5–6 poll. longum, 2 poll. latum, sparse pilosum. *Semina* 11–14 lin. in diam., castanea, hilo nigro.

89. "**PHASEOLUS,** Linn." Adde:

7. **P. calcaratus,** Roxb. Fl. Ind. iii. p. 289; W. et A. Prod. i. p. 245.—C.P. 1473.
HAB. Very abundant in the Central Province.

89. "**P. radiatus,** Linn." Pro "C.P. 1473," substitue: C.P. 3622, et pro:
"HAB. Very abundant up to an elevation of 2000 feet," substitue:
HAB. Trincomalie, *Rev. S. O. Glenie.*

90. "**Dunbaria Heynei,** W. et A." Ante "*D. oblonga,*" insere: ?.

91. "**RHYNCHOSIA,** Lour." Adde:

4. **R. villosula,** Thw.; volubilis, glanduloso-hirsutula; *foliis* pinnatim 3-foliolatis; *foliolis* late trapezoideis, acuminatis, basi angustis, truncatis vel subcordatis, lateralibus externe dilatatis; *sti-*

Digitized by Google

Page

pulis parvis, coloratis, trapezoideis, acuminatis; *racemis* axillaribus, plurifloris, folio longioribus; *bracteis* quam pedicelli breves parum longioribus, rotundatis, acutis, basi angustatis, cito deciduis; *calycis* lobo supremo latiore, infra medium bifido; *corolla* quam calyx duplo longiore; *carina* falcata, erostellata; *stylo* versus apicem incrassato, albido, nitido.—C.P. 3790.

HAB. Trincomalie, *Rev. S. O. Glenie.*

Foliola 1–2 poll. longa. *Pedicelli* solitarii. *Flores* semipollicares. *Calyx* ad medium fissus, *lobis lateralibus* et *infimo* paullo longiore lanceolatis, acutis. *Corolla* ochracea, *vexillo* piloso, rubro-lineato, ad basin laminæ biauriculato, *alis* falcato-auriculatis, margine inferior dente parvo munito. *Ovarium* biovulatum, flavo-villosum. *Legumen* (immaturum) oblongum, acutum.

5. **R. acutissima,** Thw.; volubilis, breve fulvo-tomentosa, *foliis* pinnatim trifoliolatis; *foliolo terminali* trapezoideo-lanceolato, *lateralibus* parum minoribus, externe dilatatis, ovato-lanceolatis et, cum terminali, acutissime acuminatis; *stipulis* lanceolatis, deciduis; *racemis* folio subæquilongis; *pedicellis* geminis, calyce longioribus; *bracteis* lanceolatis, acuminatis, ciliatis, calyce subæquilongis, cito deciduis; *calycis lobo supremo* latiore, ad apicem bifido laciniis divaricatis, *lateralibus*, cum *infimo* dimidio longiore, lanceolatis, acutis; *corolla* quam calyx subduplo longiore; *carina* falcata, erostellata.—C.P. 3445.

HAB. Hantani, in the Central Province, at an elevation of 3000 feet.

Foliola 2–5 poll. longa. *Pedicelli* 4 lin. longi. *Flores* semipollicares. *Corolla* ochracea, rubro-lineata; *vexillo* biauriculato, versus apicem piloso, retuso, *alis* falcato-auriculatis, margine inferiore dente parvo acuto munito. *Ovarium* 2-ovulatum, longe albido-pilosum.

Hæc, et species præcedens, *Dunbariæ* valde proximant, sed bracteas magnas illius generis egent.

92. "DERRIS, Lour."

Pro "2. **D. ovalifolia,** Benth., var.," cum decriptione tota, substitue:

2. **D. oblonga,** Benth. in Linn. Soc. Journ. of Proc. iv. supp. p. 113, cum syn.—C.P. 1493.

HAB. Central and Southern Provinces.

Adde species sequentes:

4. **D. scandens,** Benth. l. c. p. 103, cum syn.—*Brachypterum scandens*, W. et A., hujus Enum. p. 93.—C.P. 1492.

5. **D. parviflora,** Benth. l. c. p. 105.—*Brachypterum elegans*, Thw. in hac Enum. p. 93 (non *Derris elegans*, Benth.).—C.P. 2508.

6. **D. Benthamii,** Thw.—*D. paniculata*, Benth. l.c. *Brachypterum Benthamii*, Thw. in hac Enum. p. 93.—C.P. 2925.

94. "**Dalbergia monosperma,** Dalzell." Adde:

HAB. Reigam Corle.

94. Adde: 52/1. **PERICOPSIS,** Thw., nov. genus.

Calyx campanulatus, in stipitem brevem attenuatus, demum prope basin circumscisse caducus, 4-fidus, *lobis* acutis subæqualibus

Digitized by Google

Page

æquilongis, *supremo* breviter bifido reflexo, *lateralibus* parum falcatis, infimo erecto concavo. *Petala* unguiculata, subæquilonga, *vexillo* orbiculari, reflexo; *alis* oblongis, auriculatis, margine inferiore dente minuto munito, *carinæ* petalis dorso versus apicem parum cohærentibus, cum alis conformibus. *Stamina* 10, *filamentis* liberis glabris, 5 paullo brevioribus. *Discus* brevis, vaginans, truncatus. *Ovarium* stipitatum, circiter 6-ovulatum. *Stylus* gradatim attenuatus, apice incurvus. *Stigma* parvum. *Legumen* stipitatum, compressum, coriaceum, indehiscens, utraque sutura anguste marginatum, apiculatum, 1–6-spermum, inter semina parum spongiosum, sæpe abortu seminum sinuatum, demum in articulis monospermis solutum. *Semina* oblique ovalia, compressa, hilo parvo.—Arbor *ingens; foliis pinnatis;* foliolis *alternis, majusculis;* paniculis *terminalibus.*

1. **P. Mooniana,** Thw.—*Dalbergia Mooniana,* Thw. in hac Enum. p. 93, cum syn.—C.P. 439.

HAB. South of the island, at no great elevation.

Flores pollicares. *Calyx* 7 lin. longus. *Petala* atro-purpurea, basi flavo-viridia. *Bracteæ* cito deciduæ, et eas nondum vidi.

94. "**Sophora violacea,** Thw." Adde ad finem descriptionis post "rubra:" denique brunnea.

95. "**CÆSALPINIA,** Linn."

Dele "3. **C. mimosoides,** Lam.," cum descriptione, et in ejus loco insere:

3. **C. Glenieii,** Thw.; inermis, ferrugineo-tomentella; *foliis* abrupte bipinnatis, *pinnis* circiter 10-jugis, *pinnulis* parvis circiter 15-jugis, sessilibus, oblongis, utrinque pilosulis, apice rotundatis, subretusis, obscure mucronulatis, basi obliquis, latis, parum rotundatis; *racemis* plurifloris, *pedicellis* quam alabastra brevioribus; *floribus* majusculis; *sepalis petalis*que externe plus minus ferrugineo-pilosis; *filamentis* ad basin ferrugineo-villosis, superne glaberrimis; *ovario,* cum ejus stipite, dense ferrugineo-tomentoso; *stylo* basi pilosulo; *stigmate* majusculo, subreniformi.—C.P. 3815.

HAB. Trincomalie, *Rev. S. O. Glenie.*

Pinnæ 2–2½ poll. longæ. *Pinnulæ* 3 lin. longæ, 1½ lin. latæ, siccitate nigrescentes. *Flores* 1½ poll. in exp., aureo-flavi.

95. Adde: 55/1. **MEZONEURUM,** Desf.

1. **M. enneaphyllum,** W. et A. Walp. Ann. iv. p. 591, cum syn. —*Cæsalpinia enneaphylla,* Roxb. Fl. Ind. ii. p. 363. *Cæsalpinia mimosoides,* hujus Enum. p. 95 (non Lam.).—C.P. 3601 (2784 partim).

HAB. Not uncommon in the hotter parts of the island.

96. "**Cassia mimosoides,** Linn., var. γ," pro "patello" insere: paullo.

98. Adde: 63/1. **DETARIUM,** Juss., DC.

1. **D. Zeylanicum,** Thw.; glabrum; *foliis* pinnatis, *foliolis* 2–6 (sæpissime 6), alternis vel suboppositis, ovatis vel oblongis, acuminatis, obtusis, basi parum obliquis, rotundatis, subtus pallidioribus,

Digitized by Google

Page

opacis, minutissime reticulatis; *racemis* terminalibus, plurifloris, sparse pilosulis, folio subæquilongis vel brevioribus.—C.P. 3714.

HAB. Galpaatta, near Caltura.

Arbor ingens. *Foliola* 2–6 poll. longa, petiolulo 2 lin. longo. *Pedicelli* 2 lin. longi, medio minute bibracteolati. *Flores* conferti. *Sepala* 2 lin. longa, rotundata, persistentia. *Stamina* 10, *filamentis* alternis brevioribus, *antheris* rotundis. *Ovarium* stipitatum, pallide fusco-tomentosum, 3–4-ovulatum. *Stylus* filiformis, glaber. *Stigma* parvum. *Legumen* (immaturum) oblongum, parum falcatum, complanatum.

99. "**ACACIA,** Willd." Adde:

8. **A. Arabica,** Willd. (W. et A. Prod. i. p. 277, cum syn.)—C.P. 3640.

HAB. Trincomalie, *Rev. S. O. Glenie.*

103. "**COMBRETUM,** Löffl." Adde:

2. **C. sarcopterum,** Thw.; scandens?; *ramulis* teretibus; *junioribus*, *petiolis pedunculis*que brevissime ferrugineo-hispidulis et, cum *foliis subtus*, creberrime glanduloso-lepidotis; *foliis* integris, oblongo-lanceolatis, obtusiusculis, basi rotundatis, superne lævibus, subtus prominentim venosis; *petiolo* brevi; *spicis* axillaribus, simplicibus, folio brevioribus; *fructu* latiuscule 4-alato, alis oblongis, utrinque angustatis, carnosis, versus marginem parum incrassatis.—C.P. 3715.

HAB. Reigam Corle.

Folia 3–7 poll. longa, 1¼–2½ poll. lata, *venis primariis* utrinque circiter 15, *secundariis* parallelis parum distantibus; *petiolo* 3 lin. longo. *Fructus* 2 poll. longus, ¾ poll. latus, glanduloso-lepidotus. *Flores* nondum vidi.

110. "**MEMECYLON,** Linn." Adde:

8/1. **M. rubro-cæruleum,** Thw.; arboreum, glabrum; *foliis* mediocribus, eveniis, cuneato-ovatis, versus apicem parum angustatis, retusis, subtus pallidioribus, brevipetiolatis; *pedunculis* solitariis vel binis, umbellam compositam, glomeratam, æquilongam gerentibus; *pedicellis* calyce dimidio longioribus; *calyce* aperte campanulato, obscure 4-dentato.—C.P. 3809.

HAB. Matelle, East.

Arbor 30-pedalis. *Folia* 1½–2 poll. longa, ½–1 poll. lata, juniora rufescentia. *Pedunculi* 3 lin. longi. *Calyx* rufescens. *Petala* cærulea, margine pallida.

13/1. **M. procerum,** Thw.; arboreum, glabrum; *foliis* majusculis, ovato-lanceolatis, gradatim acuminatis, ad costam canaliculatis, venis primariis vix conspicuis, subtus pallidioribus, basi rotundatis vel parum angustatis; *petiolo* superne sulcato; *pedunculis pedicellis*que nullis vel subnullis; *baccis* sphæricis, calyce (hoc genere) majusculo coronatis.—C.P. 3347.

HAB. Pasdoon Corle.

Arbor 30–40-pedalis. *Folia* 6–10 poll. longa, 1¾–5 poll. lata, *petiolo* 3–5 lin. longo. *Calyx* 2 lin. in exp.

112. "**M. jambosoides,** Wight." Dele: "3347."

Digitized by Google

Page
113. "**M. parvifolium,** Thw." Adde:
Forma *foliis* majoribus (1–2 poll. longis) abrupte brevi-acuminatis, obtusis.—*M. Thomsoni*, Thw. MSS.—C.P. 758.
HAB. Rambodde, at an elevation of 4000 to 5000 feet.

114. "**EUGENIA,** Linn." Adde:

2/1. **E. xanthocarpa,** Thw.; *ramulis junioribus gemmis*que ferrugineo-pilosis; *foliis* elliptico-lanceolatis, obtuse acuminatis, glabris, basi acutis, superne ad costam canaliculatis, ad venas primarias prominentibus; *pedicellis* axillaribus, fasciculatis, ferrugineo-pilosis, petiolo subæquilongis; *baccis* 1–4-spermis, subsphæricis, ferrugineo-pilosis, minute glanduloso-verrucosis.—C.P. 3834 (2623 partim).
HAB. Near the coast, between Galle and Colombo.

Arbor humilis. *Folia* 2½–4 poll. longa, 1–1¼ poll. lata, *petiolo* 3 lin. longo. *Baccæ* 3–6 lin. in diam. ochraceæ.

Ab *Eug. terpnophylla*, Thw., differt *venis primariis* numerosioribus, his subtus minus prominentibus et propius marginem anastomosantibus, et *baccis* ochraceis, sæpius 2–4-spermis.

2/2. **E. rufo-fulva,** Thw.; *ramulis junioribus gemmis*que breve rufo- vel fulvo-pilosis; *foliis* lanceolatis, longe acuminatis, acutis, superne glabris, nitidis, ad costam canaliculatis, subtus brevi rufo vel fulvo tomento adpresse tectis, denique subglabris; *pedicellis* axillaribus, fasciculatis, petiolo subæquilongis.—*E. terpnophylla*, var. β, Thw. in hac Enum. p. 114.—C.P. 3835.
HAB. Gattehatte, near Avishavelle.

Arbor 30–40-pedalis. *Folia* (cum acumine) 4–5 poll. longa, 1–1¼ poll. lata, *petiolo* semipollicari.

Differt ab *Eug. terpnophylla*, foliis subtus pilosis, et venis primariis propius marginem anastomosantibus.

9/1. **E. insignis,** Thw.; arborea; *partibus junioribus* fugaci-albo-villosis; *foliis* majusculis, glabris, oblongis, acuminatis, superne lævibus, ad costam canaliculatis, subtus pallidioribus, venis primariis utrinque circiter 12, prominentibus, procul a margine anastomosantibus, areolis lævibus subeveniis; *floribus* axillaribus rameisque, paucis, sessilibus, parvis; *calyce* externe albo-villoso, segmentis oblongis; *baccis* sphæricis albo-villosis vel floccosis.—C.P. 3677.
HAB. Galpara, in the Reigam Corle.

Arbor humilis, ramosa. *Folia* 6–8 poll. longa, 2–3½ poll. lata, basi parum acuta, *petiolo* 6–8 lin. longo. *Calycis* segmenta 2 lin. longa. *Petala* calyce parum longiora, ciliata.

11. **E. concinna,** Thw.; arborea; *partibus junioribus* pilosis; *ramulis* teretibus; *foliis* firmis, parcissime pilosis, denique glabris, ovatis, subabrupte acuminatis, obtusis, basi parum acutatis, venis primariis utrinque 12–16 prope marginem anastomosantibus, areolis obscure venoso-reticulatis; *petiolo* brevi; *pedicellis* axillaribus, fasciculatis, petiolo duplo longioribus; *floribus* parvis; *baccis* sphæricis, glabris, nitidis.—C.P. 2802.
HAB. Ambagamowa District.

Folia 3–5 poll. longa, 1½–2½ poll. lata, *petiolo* 2–3 lin. longo. *Baccæ* coccineæ, 6 lin. in diam.

Digitized by Google

Page
114. "**Eugenia terpnophylla,** Thw." Adde ad descriptionem:

Folia membranacea, obscure reticulatim venulosa, venis primariis utrinque 5–8, subtus prominentibus, procul a margine anastomosantibus. *Baccæ* sphæricæ, sæpius monospermæ.

Dele "var. β," et sequent. ad "rufo-pilosis."

116. Pro "1. **Syzygium caryophyllifolium,** DC.," cum descriptione, substitue:

1. **S. Jambolanum,** DC. (W. et A. Prod. i. p. 329, cum syn.) —C.P. 3644.

Var. β. *microcarpum.*—*S. caryophyllifolium,* DC.—C.P. 1584.

HAB. Not uncommon in the warmer parts of the island.

116. Pro "2. **Syzygium polyanthum,**" cum sequent. ad "p. 16?," substitue:

2. **S. nervosum,** DC. Prod. iii. p. 260; Wall. Cat. no. 3551 B. Et adde:

Hæc species differt ab *Eugenia polyantha,* Wight, et *E. balsamea,* Wall., paniculis majoribus et pedicellis subnullis.

116. Pro "4. **Syzygium montanum,**" cum tota descriptione, substitue:

4. **S. firmum,** Thw.; arborea, glabra; *foliis* majusculis, coriaceis, nitidis, obovatis, abrupte et brevissime acuminatis, obtusis vel retusis, utrinque prominentim subparallele plurivenosis, basi angustatis, petiolatis; *paniculis* ad apices ramulorum axillaribus terminalibusque, folio brevioribus vel subæquilongis; floribus (pro hoc genere) majusculis; *calyce* in brevem pedicellum attenuato, segmentis brevibus, rotundatis; *petalis* distinctis.—*Eugenia firma,* Wall. Cat. 3603 A.—C.P. 2694.

HAB. Ambagamowa District.

Arbor magna. *Folia* 4–8 poll. longa, 3–3½ poll. lata, *petiolo* ¾–1 poll. longo. *Calyx* (cum pedicello) ½ poll. longus, 4 lin. latus.

Differt ab *Eugenia montana,* Wight, foliis floribusque multo majoribus.

122. Adde: 4 *a.* **NESÆA,** Comm.

1. **N. triflora,** H. B. K. (W. et A. Prod. i. p. 307, cum syn.) —C.P. 1541.

HAB. Ceylon, *Walker* (*Herb. Hook.*).

124. "**Melothria deltoidea,** Thw." In descriptione, pro "digitata" lege: sagittata.

126. "**LUFFA,** Tourn." Adde:

3. **L. amara,** Roxb. (W. et A. Prod. i. p. 343, cum syn.; Naudin in Ann. des Sc. Nat. ser. 4, xii. p. 123.)—C.P. 1623.

HAB. North of the island, *Gardner;* Trincomalie, *Rev. S. O. Glenie.*

Semina multo minora quam in *L. acutangula.*

128. "**Begonia subpeltata,** Wight." Adde:

Folia viridia vel aliquando nigro-cuprea.

129. "**Kalanchoe laciniata,** DC." Adde: C.P. 3836.

HAB. Matelle, East.

Digitized by Google

Page

130. "**Vahlia oldenlandioides,** Roxb." Post "C.P. 1686," adde: 1687.

130. Dele "2. **Vahlia viscosa,** Roxb.," cum descriptione.

132. "**Hedera Vahlii,** Thw." In descriptione, pro "balsamiflora," lege: balsamiflua.

133. "**LORANTHUS,** Linn." Adde:

12 *a.* **L. lonchiphyllus,** Thw.; *ramulis* teretibus; *foliis* coriaceis, glabris, penniveniis, ovato-lanceolatis, gradatim acuminatis, costa venis primariisque conspicuis, basi rotundatis; *petiolo* brevi, parce alato; *pedunculis* axillaribus, 1- vel 2-nis, brevibus, flores circiter 7, subcymosos, brevipedicellatos gerentibus; *calyce* cylindrico, truncato, unibracteolato; *corolla* longiuscula, parum curvata, medio dilatata, irregulariter fissa; *baccis* ovoideis.—C.P. 3678.

HAB. Ambagamowa District.

Folia 4–6 poll. longa, 1½–2¾ poll. lata, *petiolo* circiter 3 lin. longo. *Inflorescentia* plus minus ferrugineo-leprosa. *Pedunculi* 2 lin. longi. *Pedicelli* ½ lin. longi. *Calyx* 1 lin. longus. *Bracteola* subacuta, apice parum fimbriata vel denticulata, calyce dimidio brevior. *Corolla* sesquipollicaris. *Baccæ* ¼ poll. longæ.

134. "**Loranthus Neilgherrensis,** W. et A.," pro "1648," substitue: 1646.

136. "**VISCUM,** Tourn." Adde:

6. **V. floccosum,** Thw.; ramosissimum; *partibus junioribus, inflorescentia foliis*que subtus pilis ramosis ochraceo-floccosis; *ramulis* teretibus, striatis; *foliis* trinerviis, late ovatis vel rotundatis, parum acuminatis, obtusis, basi rotundatis, in petiolum brevem angustatis; *floribus* paucis, terminalibus, monoicis, verticillato-spicatis. FLOR. MASC.: *antheris* subsessilibus, erectis, 8-locellatis, poris dehiscentibus.—*Notothixos (?) floccosus,* Oliv. in Linn. Soc. Journ. of Proc. vii. p. 104.—C.P. 3654.

HAB. Hinidoon Pattoo, abundant; Kokool Corle.

Folia ½–1¼ poll. longa, *petiolo* 2–3 lin. longo. *Spicæ* breves. *Flores* minuti, ½ lin. in exp. interne glabri, perianthii lobis 4 vel rarius 3, triangularibus, acutis. FLOR. FŒM.: *Stylus* conicus a basi lata subplana quadrangulari, brevis, apice parum dilatatus, stigmatosus. *Baccæ* ovoideæ, albæ, 2 lin. longæ, lobis perianthii coronatæ.

136. "**Viscum spathulifolium,** Thw." Adde, ut synonyma: *Ginalloa (?) spathulifolia,* Oliv. l. c. p. 103.

138. "**Uncaria Gambier.**" Pro "Hunt.," substitue: Roxb.

139. "8. **AXANTHES,** Blume." Substitue:

8. **UROPHYLLUM,** Jack., Wall.

Axanthes, Blume. Et adde:

1. **U. Zeylanicum.**—*Axanthes Zeylanica,* Wight, hujus Enum. p. 139.—C.P. 499 (707).

Digitized by Google

Page

2. **U. ellipticum.**—*Axanthes elliptica*, Wight, hujus Enum. p. 139.—C.P. 359 (584).

Flores hujus et speciei præcedentis albidi, *baccæ* aurantiacæ.

139. "**OPHIORRHIZA,** Linn." Adde:

8. **O. decumbens,** Gardn. MSS.; suffruticosa; *caule* scabrello, basi decumbente radicantique; *foliis* lanceolatis vel ovato-lanceolatis, utrinque acuminatis; *stipulis* brevibus, setaceo-cuspidatis, interne glandulosis; *corymbis* terminalibus, pedunculatis, scabrellis; *bracteolis* parvis, angustis; *pedicellis* calyce brevioribus; *corolla* quam calyx 3–4-plo longiore; *capsula* late triangulari, angulis subacutis.—C.P. 3656.

HAB. Common in the Central Province.

Differt ab *A. nemorosa*, Thw., cui valde similis, pedicellis floribusque brevioribus, et capsula latius et acutius ad latera producta; ab *O. Mungos*, Linn., caule suffruticoso et floribus longioribus satis distincta.

140. "**HEDYOTIS,** Lam." Adde:

18 *a*. **H. cinereo-viridis,** Thw.; suffruticosa, subglabra; *ramulis* parum tetragonis; *foliis* lanceolatis, utrinque acuminatis, petiolatis, venis primariis subtus parum prominentibus; *stipulis* triangularibus, bicarinatis, parum connatis, omnino vel ad carinas pilosis, ad apicem plus minus rostrato-productis glandulosisque; *floribus* glomeratis, brevipedicellatis, axillaribus vel ramulos breves terminantibus; *calyce* campanulato, 4-lobato; *lobis* acutis, brevibus vel longiusculis; *corollæ tubo* quam calyx longiore, interne piloso; *lobis* longiusculis, linearibus, subacutis, glabris.—C.P. 95 (98).

Var. β. *foliis* majoribus; *stipulis* longius rostratis; *floribus* omnibus axillaribus; *corolla* externe pilosa.—C.P. 2639.

HAB. Matelle, East. Var. β. Ambagamowa.

Hæc species olim cum *H. inamœna*, Thw., confusa.

140. "**Hedyotis evenia,** Thw." Dele annotationem, et insere: Hæc species ab *H. Lawsoniæ*, W. et A., inflorescentia terminali satis distinguitur.

141. "**Hedyotis flavescens,** Thw." Certe forma solum *H. Lessertianæ*, Arn. (var. γ), in locis apricis madidis crescens.

143. "**Hedyotis inamœna,** Thw." Dele "95," "(98)," et a "Var. β" ad "Districts" inclus. Adde ad descriptionem:

Folia subevenia, glaberrima. *Stipulæ* margine dilatato, membranaceo, tuberculis notato. *Calyx* pilosus, tubo corollæ parum brevior, lobis ovatis obtusis.

HAB. Near Balangodde.

144. "**Hedyotis Burmanniana,** Br." Pro "2368," insere: 2638. Adde: species valde variabilis.

Forma *b*; *brachypoda*; *floribus* 1–2-nis, fere sessilibus, ad axillas foliorum.—*Oldenlandia brachypoda*, DC. Prod. iv. p. 424.—C.P. 3838.

HAB. Central Province.

Forma *c*; *racemosa*; *floribus* 3–6, in racemum dispositis ad api-

Digitized by Google

Page

cem pedunculi.—*Hedyotis (O.) brachiata,* Wight; W. et A. Prod. i. p. 415.—C.P. 3837.

HAB. Near Colombo, *Mr. W. Ferguson.*

144. "**DENTELLA,** Forst."

Hoc genus placentam in medio dissepimenti affixam habet, et hinc inter genera subsectionis præcedentis, post *Urophyllum,* Jack, rectius allocandum.

145. "**Morinda exserta,** Roxb." Adde:

Flores dimorphi, alii stigmate, alii antheris exsertis.

145. Pro "13. **MEPHITIDIA,** Reinw.

Lasianthus, Jack, Wight," substitue:

13. **LASIANTHUS,** Jack, Wight.

Mephitidia, Reinw. Et adde:

1. **L. Moonii,** Wight, in Calc. Journ. of Nat. Hist. vi. p. 504.—*Mephit. Moonii,* hujus Enum. p. 145.—C.P. 92.

2. **L. strigosus,** Wight, l. c. p. 512.—*Mephit. Gardneri* et *M. tomentosa* (haud *M. strigosa*), hujus Enum. pp. 145, 146.—C.P. 348, 2711 (1723).

Calycis lobi lanceolati, pilosi.

3. **L. rhinophyllus,** Thw.—*Meph. rhinophylla,* Thw. in hac Enum. p. 145.—C.P. 361.

4. **L. protractus,** Thw.—*Mephit. protracta* et *M. Walkeriana,* hujus Enum. p. 146 (haud *L. Walkerianus,* Wight).—C.P. 354, 289 (340, 1728).

Calycis lobi triangulares.

5. **L. Walkerianus,** Wight, l. c. p. 513.—*Mephit. strigosa,* Thw. in hac Enum. p. 146 (haud *L. strigosus,* Wight).—C.P. 1725.

Calycis pars libera tubulosa, minute dentata.

6. **L. oliganthus,** Thw.—*Mephit. oligantha* (excl. var. β), hujus Enum. p. 146.—C.P. 357 (1726, 1727).

A specie præcedenti distinguitur *petiolis* brevioribus, et *floribus* multo minoribus.

7. **L. obliquus,** Thw.—*Mephit. oligantha,* var. β, hujus Enum. p. 146.—C.P. 3418.

8. **L. varians,** Thw.—*Mephit. varians,* hujus Enum. p. 146.—C.P. 57 (80, 290, 422, 423).

147. "**ALLÆOPHANIA,** Thw." Adde:

Bacca 4-cocca.

149. Dele "17. **PRISTIDIA,** Thw. (gen. nov.)" cum descriptione, genus a **GÆRTNERA,** Lam., haud distinctum, et hinc "**P. divaricata,** Thw." sub nomine **Gærtnera divaricata,** Thw., posthac agnoscenda.

Digitized by Google

Page
150. "**Chasalia curviflora,** Thw." Pro "*Flores* polygamo-dioici, fertiles breves, stigmate exserto," substitue:

Flores dimorphi, alii *stigmate,* alii *antheris* exsertis. *Corolla* longiuscula, curvata, vel brevior recta.

151. Genera "**RUBIA,** Tourn.," et "**GALIUM,** Linn.," subsectionem Ordinis ovulis medio dissepimenti affixis, melius formabunt.

153. "**TIMONIUS,** Rumph., DC." Adde, ut synonyma:

Bobea, Miquel.

153. "**Timonius Jambosella,** Thw." In descriptione, pro "comosis" lege: carnosis.

154. "**Coffea? elliptica,** Thw.," ad genus **STYLOCORYNE,** Cav. transferenda; vide infra.

154. "**Prismatomeris albidiflora,** Thw." Adde:

Coffeæ tetrandræ, Roxb., valde affinis; an ejusdem varietas floribus pentameris?

155. "**Ixora acuminata,** Roxb." Adde: *I. jucunda,* Bot. Mag. t. 5197 (haud Thw.).

157. "**Hyptianthera macrocarpa,** Thw." In descriptione, pro "*lobi* 5," insere: *lobi* 4, rarius 5.

158. "**STYLOCORYNE,** Cav." Adde:

2. **S. elliptica,** Thw.—*Coffea (?) elliptica,* Thw. in hac Enum. p. 154.—C.P. 3482.

Bacca pollicaris, carnosa, loculis circiter 10-spermis. *Semina* complanata, oblonga, semipollicaria, imbricata, biserialia, pulpa immersa.

159. "**GARDENIA,** Ellis." Adde:

2. **G. latifolia,** Ait. (W. et A. Prod. i. p. 395, cum syn.; Wight, Icon. t. 759.)—C.P. 3617.
HAB. Near Colombo, *Mr. W. Ferguson.*

159. "**Valeriana Hardwickii,** Wall." Adde ad descriptionem:

Achænia in planta Zeylanica glabra et multo majora quam in specimine ex Herb. Ind. Orient. cl. Hook. f. et Thoms.

160. Pro "1. **Dipsacus Leschenaultii,** Coul.," et sequent., substitue:

1. **D. Walkeri,** Arn. Pug. p. 26 (334); Wight, Icon. t. 1166.—C.P. 2404 (1730).
HAB. Newera Ellia.

A *D. Leschenaultii,* Coult., cui valde similis, forma palearum satis differt fide specimin. ex Herb. Ind. Or. cl. Hook. f. et Thomson.

160. "**Vernonia Neilgherryensis,** DC." Adde:

Achænia immatura glandulis conspersa. *Pappi* series externa brevissima, parum expansa.

161. "**Vernonia Gardneri,** Thw." Pro "*pappo exteriore* brevissimo," substitue: pappi serie externa brevi, subpaleacea, distincta vel ad basin in tubum plus minus cohærente.

Facie externa *Decaneuro Silhetensi,* DC., valde similis, sed forma achænii pappique satis distinguitur.

Digitized by Google

Page
163. "**BLUMEA,** DC." Adde:

6 *a*. **B. balsamifera,** DC. Prod. v. p. 447, cum syn.—C.P. 3665.
HAB. Trincomalie, *Rev. S. O. Glenie*.

165. Adde: 23 *a*. **XIMENESIA,** Cav.

1. **X. encelioides,** Cav.; DC. Prod. v. p. 627.—*a. hortensis*.—C.P. 3839.
HAB. Trincomalie, *Rev. S. O. Glenie*.

166. "**GNAPHALIUM,** Linn."

Pro "**G. Indicum,** Linn. (DC. Prod. vi. p. 231; DC. l. c. p. 274)," substitue:

G. oblongum.—*Anaphalis oblonga* et *An. (?) elliptica*, DC. l. c. p. 274. *A. (?) elliptica*, Wight, Icon. t. 1118. Et adde:

Specimina Zeylanica veri *Gnaph. Indici*, Linn., nunquam vidi, et nomen in hac Enumeratione meo errore insertum.

166. "**G. Wightianum,** Wall. Cat." Post "C.P." dele "528, 132, 568," et dele quoque a "Suffruticosum" ad finem annotationis. Post "t. 1117" insere: An *Anaphalis araneosa*, DC. l. c. p. 275?

166. Adde: 4 *a*. **G. adnatum,** Wall. Cat.; DC. Prod. vi. p. 274.—An *Anaphalis leptophylla*, DC. l. c. p. 273?—C.P. 568.
Var. β. *spathulifolium;* fruticosum, ramosum; *foliis* (superioribus exceptis) spathulatis, parum acutis, trinerviis, superne araneosis vel subglabris, subtus dense floccoso-tomentosis; *floribus* fere ut in var. *a*, sed squamis involuc. parum majoribus.—C.P. 132, 528.—An species distincta?

166. "**G. marcescens,** Wight." Adde: An *Anaphalis Notoniana*, DC. Prod. vi. p. 273, cum syn.?

167. "**Emilia prenanthoides,** DC." Pro "subliratаque" lege: sublyrataque.

167. "**Senecio corymbosus,** Wall." Post "1130.)" dele "C.P. 565;" et post "C.P. 272" adde: 565. Post "1131.—" insere: *S. araneosa*, DC. l. c. Adde annotationem sequentem:

Nunquam specimina Zeylanica formæ (var. *a*) *S. corymbosi*, Wall., foliis subtus tomento compacto ochraceo vel ochraceo-fulvo persistente tectis vidi, sed in aliis characteribus planta Zeylanica cum hac forma omnino congruit.

168. "**Stylidium uliginosum,** Sw." Pro "C.P. 2505" lege: C.P. 3505.

169. "CAMPANULACEÆ." Adde:

3. **CEPHALOSTIGMA,** A. DC.

1. **C. spathulatum,** Thw.; herbacea, hispidula; *caule* erecto, superne paniculatim ramoso, 4–5-costato; *foliis* lanceolatis, inferioribus spathulato-lanceolatis, acutis, parum dentatis; *floribus* minutis, longe pedicellatis; *lobis calycinis* lanceolatis, acutis; *corollæ* lobis ciliatis; *stigmate* 3-lobo.—C.P. 3794.
HAB. Oova District, at an elevation of 4000 feet.

Herba 4–16-pollicaris. *Folia* utrinque pilosa, 5–15 lin. longa, 1½–3½ lin. lata. *Capsula* sphærica.

Digitized by Google

Page
172. "**Utricularia orbiculata,** Wall." Pro "C.P. 2085" lege: C.P. 2084.

173. "**ARDISIA,** Linn."

Pro "**A. paniculata,** Roxb.," et seq. ad "1215," substitue: **A. Courtallensis,** Wight, Ic. t. 1215.—*A. Missionis,* var. *β. verticillata,* A. DC. Prod. viii. p. 130. Et adde:

Ab *A. paniculata,* Roxb., cui valde similis et forsan ejusdem varietas, differt foliis minoribus, venis primariis minus regularibus distinctisque, calycis segmentis acutioribus et corolla glandulosa.

174. "**A. divergens,** Roxb., var. *β.*" Dele "An *A. crispa,* var. *β,* A. DC. l. c. 134, cum syn.?"

175, 176. Genera "**DASYAULUS,**" Thw., "**DICHOPSIS,** Thw.," et "**ISONANDRA,** Wight," melius, ut credo, sectiones **BASSIÆ** formabunt.

178. "**DIOSPYROS,** Dal., Linn." Adde:

1 *a.* **D. montana,** Roxb. Pl. Cor. t. 48; Roxb. Flor. Ind. ii. p. 538; Wight, Ic. t. 1225.—C.P. 3774.
HAB. Trincomalie, *Rev. S. O. Glenie.*

178. "**D. cordifolia,** Roxb." Dele "*D. montana,* Wight. Ic. t. 1225 (non Roxb.)." Una cum annotatione tota.

180. "**D. oocarpa,** Thw." Post "suffultis" insere: *D. Arnottiana,* Miq., fide specim. ex Herb. Ind. Orient. cl. Hook. f. et Thoms.

180. Adde speciem sequentem *Diospyri:*
9 *a.* **D. pruriens,** Dalz. in Hook. Journ. of Bot. iv. (1852) p. 110?—C.P. 2836.
HAB. Saffragam District, at an elevation of 2000 feet.

Ramuli juniores patentim longiuscule hispido-pilosi. *Folia* superne glabra, costa pilosa, subtus sparse longiuscule pilosa. Inflorescentiam nondum vidi. Forsan species nova.

183. "**MACREIGHTIA,** A. DC."

Adde ad char. gen. quoad species Zeylanicas:

FLOR. MASC. *Calyx* tridentatus, uno latere profunde fissus. *Stamina* indefinita, 4–16, filamentis prope basin corollæ insertis, longitudine valde inæqualibus, antheris oblongis lateraliter dehiscentibus. *Ovarii rudimentum* parvum vel subnullum. FLOR. FŒM. *Ovarium* 6-loculare, loculis uniovulatis. *Stylus* cylindricus vel parum conicus. *Stigma* parvum, 3-partitum. Arbores mediocres, *partibus junioribus inflorescentia*que pilosis; *gemmis* squamis distichis ovatis imbricatis; *foliis* penniveniis, superne sublævibus, ad costam venas primariasque depressis, subtus prominentim reticulatis; *petiolo* crassiusculo; *floribus* subsessilibus, secus ramulos juniores infra folia singulatim dispositis, vel breve spicatis ab axillis foliorum annotinorum vel delapsorum.

183. "**M. oblongifolia,** Thw." Adde ad descriptionem:

FLOR. MASC. *Corollæ* tubus quam calyx dimidio longior. *Stamina* circiter 12. *Ovarii rudimentum* minutum, pilosum.

Digitized by Google

Page

183. Adde species sequentes *Macreightiæ:*

2. **M. ovalifolia,** Thw.; *foliis* coriaceis, ovatis, parum acuminatis, obtusiusculis, basi rotundatis vel parce angustatis. FLOR. MASC. rameis.—C.P. 3717.

HAB. Hinidoon Pattoo, at no great elevation.

Folia 2–3½ poll. longa, 1–1¾ poll. lata, *petiolo* 2–3 lin. longo. FLOR. MASC. *Calyx* 2½ lin. longus, tubo corollæ æquilongus. *Stamina* 13–16. *Ovarii rudimentum* subnullum.

3. **M. acuminata,** Thw.; *foliis* membranaceis, ovatis vel ellipticis, valde acuminatis, basi rotundatis vel parum acutis, brevipetiolatis. FLOR. MASC. *Corollæ tubo* quam calyx duplo longiore; *staminibus* 4–5; *ovarii rudimento* parvo, oblongo, apice attenuato, piloso.—C.P. 3718.

HAB. Hinidoon Pattoo.

Folia (cum acumine) 3–5 poll. longa, 1–1½ poll. lata, *petiolo* 1½–2 lin. longo. *Corolla* 4 lin. longa. FLOR. FŒM. *Nuculania* sphærica, tomentosa et sparse longiuscule pilosa, 6–7 lin. in diam.

190. "**JASMINUM**, Tourn."

Pro "**J. rigidum,** Zenk.," cum sequent. ad "p. 55," substitue:

J. glabriusculum, Blume, Bijdr. p. 679; DC. Prod. viii. p. 303, fide specim. ex Herb. Hort. Bot. Javan.—[Conf. *J. rigidum,* Zenk.; DC. l. c. p. 305. *J. myrtifolium,* Zenk.; DC. l. c. p. 304. *J. ligustrifolium,* Wall.; DC. l. c. *J. tetraphis,* Wight et Gardn.; Walp. Ann. iii. p. 21.]

191. "**Ophioxylon serpentinum,** Willd." Pro "1834" lege: 1836.

191. "**O. densiflorum,** Thw." Pro "1836" lege: 1834.

193. "**Wrightia angustifolia,** Thw." Adde ad descriptionem: Folliculi cylindrici, attenuati, nigri, nitidi, 8–10 poll. longi, 2 lin. in diam.

197. "**TYLOPHORA,** R. Br."

"**T. fasciculata,** Ham." Pro "C.P. 369" substitue: C.P. 3792. Et pro "HAB. Not uncommon" et sequent. ad "7000 feet" substitue:

HAB. Moottettoowegama.

197. Adde species sequentes *Tylophoræ:*

4*n.* **T. Iphisia,** A. DC. Prod. viii. p. 610, cum syn.; Wight, Icon. t. 1276.—*T. fasciculata,* hujus Enum. p. 197 (haud Ham.). —C.P. 369.

HAB. Common in the more elevated parts of the Central Province.

6. **T. membranifolia,** Thw.; volubilis, glabra; *foliis* tenuiter membranaceis, ovatis subito breviacuminatis, acutis, mucronatis, plus minus cordatis, longiuscule petiolatis; *petiolo costa*que superne puberulis; *pedunculis* filiformibus, folio subæquilongis, flexuosis, ad flexuras apicemque florum fasciculos gerentibus; *pedicellis* flore triplo longioribus; foliolis *coronæ stamineæ* depressis, carnosis, lateraliter parum compressis; *calycis* segmentis ovatis, parum acutatis.—C.P. 3793.

HAB. Colombo, *Mr. W. Ferguson.*

Digitized by Google

Page

Differt a *T. asthmatica*, W. et A., *foliis* plus membranaceis, pedunculis elongatis, floribus multo minoribus et segmentis calycinis latioribus.

200. "**Fagræa Zeylanica,** Thunb." Adde: Abundant on the banks of the river at Balangodde.

201. "**STRYCHNOS,** Linn."

Dele "3. **S. laurina,** Wall.," cum tota descriptione, et insere:

3. **S. micrantha,** Thw.; scandens; *ramulis junioribus* teretibus, pilosulis vel subglabris; *cirrhis* gemellis ad apicem ramuli abbreviati æquilongi, medio incrassatis; *foliis* glabris, firmis, ovatis vel ellipticis vel anguste lanceolatis, plus minus acuminatis, mucronulatis, tri- vel triplinerviis, basi parum acutatis, petiolatis; *cymis* axillaribus terminalibusque, a basi ramosis, folio multum brevioribus, breve pilosis; *floribus* parvis, pentameris; *segmentis calycinis* brevibus, rotundatis, ciliatis; *corollæ* fauce villosa, tubo lobis æquilongo; *ovario* oblongo, villoso, calycem excedente, in stylum longiusculum sensim attenuato; *stigmate* parvo.—C.P. 1866, 3540, 3720.

HAB. Warmer parts of the island, not uncommon.

Folia 1½–5 poll. longa, 1–2 poll. lata, *petiolo* 3–4 lin. longo. *Cymæ* pollicares. *Pedicelli* flore æquilongi vel abbreviati. *Corollæ* tubus ½ lin. longus. *Nuculania* (immat.) pollicaria.

Differt a *S. laurina,* Wall., inter alia, floribus multo minoribus.

3/1. **S. coriacea,** Thw.; scandens?; *ramulis junioribus* pilosulis; *foliis* coriaceis, ellipticis, parum acuminatis, triplinerviis, subtus pallidioribus, reticulato-venosis, brevipetiolatis; *cymis* axillaribus terminalibusque, pilosulis, folio brevioribus vel subæquilongis; *segmentis calycinis* rotundato-oblongis, obtusis vel parum acutatis, breviciliatis; *corolla* quam calyx 5–6-plo longiore, lobis interne usque ad apicem villosis, tubo æquilongis; *ovario* oblongo, villoso, calyce subæquilongo, in stylum longiusculum attenuato; stigmate parum dilatato.—An *S. laurinæ,* Wall., var.?—C.P. 3367.

HAB. Central Province, rare.

Folia 1½–3 poll. longa, 1–1½ poll. lata; *petiolo* 1 lin. longo. *Corollæ* tubus 1 lin. longus. *Nuculania* nondum vidi. Mea specimina ecirrhosa.

201. "**S. cinnamomea,** Thw." Post "polyspermis" insere: An *S. Wallichianæ*, Steud.; DC. Prod. ix. p. 13, forma?

201. "**S. potatorum,** Linn. f." Pro "C.P. 1866, 3367" substitue: C.P. 3719.

202. "**GÆRTNERA,** Lam." Adde:

6. **G. divaricata,** Thw.—*Pristidia divaricata,* Thw. in hac Enum. p. 149.—C.P. 2991.

HAB. Hinidoon Pattoo.

Nuculania subsphærica, cyanea, semipollicaria.

204. "**Pladera pusilla,** Roxb." Adde annotationem sequentem:

Planta Zeylanica differt a speciminibus Indicis caule robustiore, ramis plus erectis, foliis latioribus, et pedicellis brevioribus, sed vix species distincta censenda.

Digitized by Google

Page
205. "**OPHELIA,** Don." Adde:

2. **O. Chirata,** Griseb. (DC. Prod. ix. p. 127, cum syn.)—C.P. 3723.
HAB. Central Province, rare.

207. "**Didymocarpus floccosa,** Thw." Post "consperso" insere: *D. primulæfolia,* Bot. Mag. t. 5161 (haud Gardn.).

211. "**IPOMŒA,** Linn."

"**I. rugosa,** Choisy." Pro "C.P. 2854" lege: C.P. 2850.

211. "**I. jucunda,** Thw." Adde ad descriptionem:

Noctiflora. *Pedunculi* 1–3-(sæpius 1-)flori. *Calyx* pollicaris, externe pilosus, basi glandulosus, segmentis ovatis mucronatis. *Corolla* hypocrateriformis, alba, 4 poll. in expans., tubo bipollicari, externe pilosula. *Stamina* alba. *Stigma* capitatum, bilobum.

212. Adde speciem sequentem *Ipomææ:*
9/1. **I. vitifolia,** Sweet. (Choisy, in DC. Prod. ix. p. 361, cum syn.)—C.P. 3685.
HAB. Hapittigam Corle.

218. "**PTEROSTIGMA,** Benth." Adde:

3. **P. (Cardiosepalum) subrepens,** Thw.; villosulum; *foliis* late ovatis, crenatis, petiolatis; *floribus* axillaribus, solitariis, brevipedicellatis, bibracteolatis; *bracteolis* filiformibus, calyce dimidio brevioribus; *calycis* segmentis 3 exterioribus ovatis vel rhomboideo-ovatis, acutis, reticulato-venosis, pilosulis (postico parum majore), 2 interioribus (lateralibus) lineari-lanceolatis et parum brevioribus, glabris.—C.P. 3821.
HAB. Pasdoon Corle, on the borders of paddy-fields.

Folia ¾–1¼ poll. longa, denique subglabra; *petiolo* 2–4 lin. longo. *Calyx* 4 lin. longus, pedicello ½ lin. longo. *Corolla* pallide cyaneo-purpurea, semipollicaris, labio superiore rotundato. *Filamenta* anteriora longiora. *Antheræ* biloculares, loculis disjunctis, inæqualibus, ambobus sæpius polliniferis.

218. "**Herpestis Monnieria,** H. B. K." Pro "C.P. 2031" lege: C.P. 2034.

219. "**BONNAYA,** Link et Otto." Adde:

3. **B. brachiata,** Lk. et Ott. (Benth. in DC. Prod. x. p. 420, cum syn.)—C.P. 3084.
HAB. Hotter parts of the island.

A *B. veronicæfolia,* Spr., cujus forsan varietas, differt foliis ad basin latioribus, serraturis setaceo-apiculatis.

219. "**B. veronicæfolia,** Spr." Dele "3084."

220. Adde: 11/1. **PEPLIDIUM,** Delile.

1. **P. humifusum,** Del. (Benth. in DC. Prod. x. p. 422, cum syn.)—C.P. 3789.
HAB. Trincomalie, *Rev. S. O. Glenie.*

Digitized by Google

Page
222. "OROBANCHACEÆ." Adde:

3. **CAMPBELLIA**, Wight.

Walp. Ann. iii. p. 207.

1. **C. cytinoides**, Wight. (Walp. l. c.; Wight, Icon. t. 1425, sub nomine *C. Neilgherrica*, Gardn.)—C.P. 3770.

HAB. Pedrotalagalla, at an elevation of 7000 feet, on roots of species of *Strobilanthes*.

230. "**Barleria Prionitis**, Linn." Adde: C.P. 2012.

233. "**Gymnostachyum hirsutum**, T. And." Adde: C.P. 2473.

233. "**Justicia Betonica**, Linn." Adde: C.P. 1990.

235. "**Asystasia Gangetica**, T. And." Pro "C.P. 1998" lege: C.P. 1988.

248. "**Euxolus polygonoides.**" Adde: *Amaranthus Blitum*, Linn., fide specim. ex Herb. Bot. Calc., differt ab hac specie, cui valde similis, dehiscentia circumscissali utriculi, et semine minore gibbosioreque.

248. "**Ærva Monsonia**, Moq." Adde: C.P. 3324.

251. "**Drymispermum cauliflorum**, Thw." Pro "ab marginem" lege: ad marginem.

256. "**Actinodaphne glauca**, N. ab Es." Pro "Halagalla" lege: Pedrotalagalla.

256. "**A. stenophylla**, Thw." Pro "303" lege: 304.

257. "**A. molochina**, N. ab Es." Pro "2272 v. 2373" lege: 2273.

259. "**ELATOSTEMA**, Forst." Adde:

3. **E. sessile**, Forst. (Wedd. Mon. des Urtic. p. 294.)—*E. cuspidatum*, Wight, Icon. t. 2091, fig. 1, t. 1983.—C.P. 3767.

HAB. Rambodde, at an elevation of 4000 feet.

262. Post "**Artocarpus integrifolia**, Linn.," insere: C.P. 2233.

263. "**Antiaris innoxia**, Bl." Post "p. 193" insere: *A. Zeylanica*, Seemann, in 'Bonplandia,' x. p. 4. Et adde:

Planta Zeylanica variat foliis subglabris, et inter eam et *A. saccidorum*, Dalz., nullam differentiam invenire possum.

264. "**Taxotrophis Zeylanica**, Thw.," pro "refluxis" lege: reflexis.

269. **EUPHORBIA**, Linn.

Pro "9. **E. bifida**, Hook. et Arn.," et sequent. ad "C.P. 2131," substitue:

9. **E. Atoto**, Forst. (Boissier in DC. Prod. xv. p. 12.)—*E. halophila*, Miq.; Boiss. l. c. p. 12, cum syn.—C.P. 2131. Et adde annot. seq.:

Hæc species differt ab *E. bifida*, Hook. et Arn., seminibus glaberrimis.

270. Dele: "* *Monoicæ.*"

271. Dele: "** *Dioicæ.*"

Digitized by Google

Page

274. "**Podadenia sapida,** Thw." Inter "*Flores*" et "rubri" insere: dioici.

274. "**MACARANGA,** Dup. Th." Adde:

2. **M. Indica,** Wight, Icon. t. 1883 et t. 1949, f. 2.—C.P. 3795.
HAB. Very abundant up to an elevation of 4000 feet.

274. "**Gelonium lanceolatum,** Willd." Pro "695" lege: 696.

275. "**Mischodon Zeylanicus,** Thw." Adde: Nom. vulg. "Tammanna."

277. "**Trigonostemon diplopetalus,** Thw." Pro "2 poll. lata" ad finem descriptionis, lege: ½ poll. lata.

280. "**AMANOA,** Aubl." Adde, ut synon. hujus generis:
Leiopyxis, Miq. Fl. Ind. Bat. Supp. i. p. 445.

Dele "1. **A. patula,** Thw.," cum tota descriptione, et in ejus loco insere duas species sequentes:

1. **A. Indica,** Wight, Icon. t. 1911.—*A. robusta,* Thw. MSS. (specim. distrib.) An *Cluytia patula,* Roxb. Pl. Cor. ii. p. 38, t. 170?—C.P. 3721 (2151 partim). Forma minor, *foliis* minus coriaceis, *petalis* parce pilosis vel glabris.—C.P. 2151.
HAB. Warmer parts of the island, not uncommon.

FLOR. FŒM. *Discus* cupuliformis, profunde 4-lobus, lobis apice dentatis, quam petala longioribus.

1/1. **A. acuminata,** Thw.; glabra; *foliis* ellipticis vel rotundatis, rostrato-acuminatis, subtus venis primariis prominentibus, basi rotundatis vel parum angustatis; *floribus* confertis, axillaribus; *petalis* oblongis, glabris, apice dentatis; *flor. fœm. disco* petalis multo breviore, dentato vel crenulato; *capsulis* sessilibus, parum depressis, latioribus quam longis, parce pilosis.—C.P. 2164.
HAB. Colombo, *Mr. W. Ferguson;* Galle District.

A. Indicæ, Wight, valde similis, sed foliis abrupte et longius acuminatis, floribus axillaribus (rarius rameis vel glomerato-spicatis), petalis forma differentibus et disco flor. fœm. multo breviore.

283. **Epistylium montanum,** Thw., est forma solum *E. polyphylli* hujus Enum. p. 283, et, ut species, delendum.

292. "**CHAVICA,** Miq." Adde:

2/1. **C. Chuvya,** Miq. (Illust. Piper. p. 42, t. 39.)—C.P. 3691.
HAB. Near Colombo, *Mr. W. Ferguson;* Central Province, but probably introduced.—Nom. vulg. "Seewiya-wel."

293. Adde: 5. **MULDERA,** Miq.

1. **M. diandra,** Thw.; glabra; *foliis* oblongo-lanceolatis, parum acuminatis, mucronatis, basi obtusiusculis, 3- vel sub-5-nerviis; *venis primariis* supra basin 2, a costa infra medium assurgentibus et apici folii attingentibus; *spicis masc.* folio brevioribus; *floribus* parum distantibus; *staminibus* 2.—C.P. 3738.
HAB. Mapalagam, in the Hinidoon Pattoo.

Scandens, radicans. *Folia* late virentia, subcarnosa, 4–7 poll. longa, 1½–2½ poll. lata; *petiolo* 3–7 lin. longo.

Digitized by Google

Page
295. Dele: "4. **Liparis odorata,** Lindl.," cum tota descriptione.

296. Adde: 2/1. **EMPUSA,** Lindl.

1. **E. paradoxa,** Lindl. Gen. et Sp. Orchid. p. 17, cum syn. —*Liparis odorata,* hujus Enum. p. 295 (haud Lindl.). An Rheede, Hort. Mal. v. 12, t. 28?—C.P. 3180, 3375.

HAB. Central Province, at an elevation of 2000 to 5000 feet.

Flores inodori.

297. "**Microstylis purpurea,** Lindl." Adde: C.P. 3768.
HAB. Hinidoon Patta.

297. "**DENDROBIUM,** Sw." Adde:

6/1. **D. hæmoglossum,** Thw.—*Caulibus* elongatis, pendulis, teretibus, parum compressis, estriatis; *foliis* lineari-lanceolatis, acuminatis, firmis; *pedunculis* oppositifoliis, brevissimis, bifloris; *sepalis petiolis*que lanceolatis, conformibus; *labelli* limbo linguæformi, acuto, glabro, undulato; *columna* apice 5-dentata.—C.P. 3842.

HAB. Matelle, *Gardner;* Dolosbagey District.

Caules 1–1½-pedalis. *Folia* 2½–3½ poll. longa, 3–4 lin. lata. *Flores* semipollicares flavi. Labellum, cum columna, rubro-tinctum.

Flower described from a coloured drawing in this collection.

299. "**ERIA,** Lindl." Adde:

1/1. **E. tricolor,** Thw.—*Caule* elongato, squamis marcescentibus vaginato; *foliis* plurimis, glabris, lanceolatis; *racemis* plurifloris, quam folia brevioribus; *rachi* villosula; *bracteis* ovatis, 1-nerviis; *sepalis petalis*que ovatis, subacutis, æquilongis, his angustioribus, illis externe cum ovario villosulis; *labelli* trilobi lobo medio rotundato, obtuso, apice reflexo, lateralibus erectis, subfalcatis, obtusis; *columna* antice medio parum gibba.—C.P. 3840.

HAB. More elevated parts of the Central Province.

Folia 5–9 poll. longa, ½–¾ poll. lata, striata. *Rachis* cum bracteis viridis. *Flores* 6 lin. in exp. *Petala sepala*que alba. *Labellum* roseum, lobo medio flavo.

Ab *E. bicolore,* Lindl., cui valde affinis, racheos florumque colore, et his minoribus numerosioribusque, satis differt.

302. "**CYRTOPERA,** Lindl."

Pro: "**C. Gardneri,** Thw.," substitue: **C. fusca,** Wight, Icon. t. 1690; nomen prioritatem habens.

302. **Luisia bicaudata,** Thw., est species *Vandæ.* Vide infra.

303. "**VANDA,** R. Br." Adde:

3. **V. bicaudata,** Thw.—*Luisia bicaudata,* Thw., in hac Enum. p. 302.—C.P. 3494.

303. "**SACCOLABIUM,** Blume." Adde:

9. **S. paniculatum,** Wight, Icon. t. 1676.—C.P. 3769.
HAB. Doombera District.

305. "**AERIDES,** Lour." Adde:

"4. **A. latifolium,** Thw.; *caule* brevi, *foliis* membranaceis, ob-

Digitized by Google

Page

ovato-lanceolatis, subacutis, apice parum obliquis, mucronatis, ad basin gradatim angustatis; *paniculis* patentim ramosis, plurifloris, quam folia longioribus; *sepalis* oblongis, subacutis, *petalis* conformibus; *labelli calcare* conico; *laciniis lateralibus* erectis, versus apicem parum dilatatis, truncatis, basi interne callosis; *intermedia* latiore, obovata, retusa, basi glandula bicorni appendiculata.—C.P. 3495.

HAB. On trees, Saffragam District and Hinidoon Pattoo, at no great elevation.

5. **A. viridiflorum,** Thw.; *caule* brevi; *foliis* oblongis vel ovatis, parum acutatis, basi latis; *racemis* foliis subæquilongis, 4–8-floris; *sepalis* ovatis, subacutis; *petalis* angustioribus, oblongis; *labello* saccato, lobis erectis, lateralibus oblongis, intermedio minore rotundato.—C.P. 3385.

HAB. On trees in the Central Province, *Gardner.*

Folia circiter 3 poll. longa, 1 poll. lata. *Flores* conniventes, semipollicares, virides vel flavo-virides, labello albo, interne rubro. *Bracteæ* parvæ. Described from coloured drawings in this collection.

306. "DENDROCOLLA, Blume." Adde:

2. **D. pulchella,** Thw.—*Cylindrochilus pulchellus,* Thw. in hac Enum. p. 307.—C.P. 2354.

307. Dele: "CYLINDROCHILUS, Thw.," genus a *Dendrocolla* haud distinctum. *D. pulchellus,* Thw., est *Dendrocolla pulchella,* Thw. Vide supra.

311. "Sect. 5. ARETHUSEÆ, Lindl." Adde:

Subsect. POGONIDÆ, Lindl.

48/1. POGONIA, Juss.

1. **P. Juliana,** Wall. Cat. no. 7399.—Lindl. Gen. et Sp. Orchid. p. 414.—C.P. 3841.

HAB. Doombera District.

315. "**Zingiber Wightianum,** Thw." Adde ad descriptionem: *Spica* radicalis vel rarius terminalis.

316. "**Curcuma albiflora,** Thw." Post "spica radicali" insere: vel rarius terminali.

317. "AMOMUM, Linn." Adde:

5/1. **A. graminifolium,** Thw.; *foliis* firmis, linearibus, acuminatissimis, in petiolum brevem angustatis; *ligula* brevi, indivisa, rotundata vel truncata, marcescente.—C.P. 3820.

HAB. Abundant in the Singherajah Forest.

3–4-pedalis vel ultra. *Rhizoma* rufescens, 3–4 lin. in diam. *Folia* 12–14 poll. longa, ½–¾ poll. lata. Inflorescentiam nondum vidi.

317. "**Amomum masticatorium,** Thw." Pro "semilunaria," lege: semilunari.

319. "ELETTARIA, Rheede.

Sect. *Geanthus.*" Adde:

5. **E. rufescens,** Thw.; *foliis* glabris, anguste lanceolatis, longiuscule acuminatis, basi acutis, sessilibus; *ligula* brevi, indivisa, rotundata; capitulis (in meis speciminibus, an semper?)

Digitized by Google

Page

terminalibus; *bracteis* floribus æquilongis, rotundatis vel ovatis, obtusis.—C.P. 3732.

HAB. Dic Oya, in the Ambagamowa District.

1½–2-pedalis, rufescens. *Folia* 5–10 poll. longa, 1–2 poll. lata, firma. *Capitulum* 1½ poll. in diam., bracteis magnis involucratum. *Flores* flavi, parce rufescentes. *Corollæ* laciniæ exteriores oblongæ, apice rotundatæ. *Labellum* æquilongum, trilobum, lobo intermedio retuso.

319. "**E. involucrata,** Thw." Post "glabris" adde: vel subtus plus minus tomentosis.

319. "**E. floribunda,** Thw." Post "glabris" insere: vel subtus ad costam tomentellis.

326. "**Dioscorea spicata,** Roth." Dele "?" post "571."

330. "**CALAMUS,** Linn."

Dele "**C. gracilis,** Roxb.," cum tota descriptione, et in ejus loco insere duas species sequentes:

4. **C. pachystemonus,** Thw.; *frondibus* pinnatis, *vagina* aculeis rectis sparsis armata, ad apicem rugulosa, *laminis* 2–7 (sæpius 7), secus rachin aculeatam irregulariter dispositis, obovato-lanceolatis, cuspidato-acuminatis, plurinerviis (nerv. 3–5 robustioribus); *spadicibus* elongatis, decompositis, ramis 1–4, ramulis floribus numerosis (18–25), alternis, brevibus, confertis, recurvis; *floribus* (*masc.*) confertis; *corolla* quam calycem 3–4-plo longiore; filamentis (3 interioribus valde) incrassatis.—C.P. 2334.

HAB. South of the island. Nom. vulg. "Kookool-wel."

Species minor, caulibus tenuibus scandentibus. *Frondium* rachis 3–7 poll. longa, laminæ transverse prominentim venulosæ, 5–12 poll. longæ, 1½–2¼ poll. latæ, 2 superiores basi cohærentes. *Spadicis* rami prim. 3–5 poll. longi. *Spathæ* infundibuliformes, truncatæ, brevicuspidatæ. *Bracteæ bracteolæ*que patelliformes. FLOR. MASC. *Calyx* ad medium fissus, lobis rotundatis. *Corolla* tubo brevi, lobis lanceolatis subacutis. *Ovarii rudimentum* parvum, trifidum. FLORES FŒM. nondum vidi.

A *C. gracili*, Roxb., differt laminis frondis paucioribus, ramulis spadicis masc. pluribus, et forma calycis.

4/1. **C. radiatus,** Thw.; *frondium* laminis 6–7, ad apicem racheos aculeatæ radiatim aggregatis, linearibus, acuminatis; *spadicibus* elongatis, arcte aculeatis, decompositis vel supradecompositis, ramis primariis 2–6, ramulis florigeris reflexis, parum distantibus, 3–15-floris; *alabastris* (*masc.*) cylindricis, falcatis; *drupis* sphæricis, brevirostratis.—C.P. 3805.

HAB. South of the island. Nom. vulg. "Kookool-wel."

Polygamo-dioicus, alte scandens, caulibus tenuibus. *Frondium* vagina aculeis simplicibus vel seriatim cohærentibus dense armata, rarius rugosa subinermis; rachis 1½–3½ poll. longa; laminæ 7–10 poll. longæ, 6–8 lin. latæ. *Spathæ* clavato-infundibuliformes, brevicuspidatæ. *Bracteæ bracteolæ*que poculiformes, minute cuspidatæ vel obtusæ. FLOR. MASC. *Calyx* cylindricus, duplo longior quam latus, breve 3-lobus, lobis triangularibus acutis. *Corolla* calyce fere triplo longior, tubo brevi, segmentis linearibus acutis. *Filamenta* dimidio inferiore incrassata. *Ovarii rudimentum* minutum, oblongum, apice trifidum. FLOR. FŒM. *Drupæ* 4 lin. in diam., squamis latiusculis flavis nigro-rubro-marginatis.

330. "**Calamus delicatulus,** Thw." Adde ad descriptionem: HAB. Hinidoon Pattoo. Nom. vulg. "Narrawell."

Digitized by Google

Page

Polygamo-dioicus, alte scandens, caulibus tenuibus. *Frondes* 2–3-pedales (juniores fugacim nigro-ferrugineo furfuraceæ); vagina aculeis longis (versus apicem 4–5-pollicaribus) applanatis albicantibus fragilibus dense armata. *Bracteæ* poculiformes, cuspidatæ. *Bracteolæ* patelliformes. FLOR. FŒM. *Corolla* calycem vix excedens. *Ovarium* oblongum, staminibus sterilibus in forma poculi sexdentati cinctum. *Stigmata* exserta, reflexa. *Drupæ* subsphæricæ, parum oblongæ, rostratæ, semipollicares, squamis ochraceis margine nigro-rubris ornatæ.

334. "**LAGENANDRA,** Dalz." An species hujus generis rectius sectionem **CRYPTOCORYNIS,** Fisch., formarent?

334. "**ARUM,** Linn." Adde:

3. **A. (Typhonium) Roxburghii,** Schott, Aroid. i. p. 12; Synops. Aroid. p. 18.—*Arum trilobatum,* Roxb. Fl. Ind. iii. p. 505 (haud Linn.); Wight, Icon. t. 803.—C.P. 3764.

HAB. Colombo, *Mr. W. Ferguson;* Peradenia.

336. "**COLOCASIA,** Ray." Adde:

3/1. **C. fornicata,** Kunth, Enum. iii. p. 41.—*Alocasia fornicata,* Schott, Syn. Aroid. p. 47. *Arum fornicatum,* Wight, Icon. t. 792.—C.P. 3830.

HAB. Colombo, *Mr. W. Ferguson.*

339. Adde: 6/1. **ROXBURGHIA,** Dryand.

1. **R. gloriosoides,** Jones in Roxb. Pl. Corom. i. p. 26, t. 32; Kunth, Enum. v. p. 287 cum syn., var. *β. minor.*—C.P. 3775.

HAB. Trincomalie, *Rev. S. O. Glenie.*

Folia 2–3 poll. longa. *Perigonii* foliola 8 lin. longa.

Differt a forma communi hujus speciei nonnisi partibus omnibus multo minoribus.

339. Adde: 7/1. **LEDEBOURIA,** Roth.

1. **L. hyacinthina,** Roth. (Kunth, Enum. iv. p. 336, cum syn.; Wight, Icon. t. 2040.)—C.P. 3829.

HAB. Trincomalie, *Rev. S. O. Glenie.*

342. "**CYPERUS,** Linn." Adde species sequentes:

2/1. **C. pumilus,** Linn. (N. ab Es. in Wight's Contrib. p. 74, cum syn.; Kunth, Enum. ii. p. 4, cum syn.)—C.P. 3787.

HAB. Kornegalle District.

2/2. **C. stramineus,** N. ab Es. l. c.; Kunth, l. c. p. 9.—C.P. 3776.

HAB. Kornegalle District.

25/2. **C. venustus,** R. Br. (N. ab Es. l. c. p. 86, cum syn.; Kunth, l. c. p. 68, cum syn.)—C.P. 3788.

HAB. Trincomalie, *Rev. S. O. Glenie.*

344. "**Cyperus distans,** Linn." Adde:

Var. *β. major; culmo* elatiore, *spiculis* suberectis, *squamis caryopsique* parum longioribus.—C.P. 3844.

HAB. Trincomalie, *Rev. S. O. Glenie;* Dambool, *A. O. Brodie, Esq.*

Digitized by Google

Page

345. "**PANDANOPHYLLUM**, Hassk."

"*Char. emend.*" Pro "*Squamæ* uniflorae" insere: *Spiculæ* androgynæ. Dele "FLOR. MASC." et sequent. ad: basi incrassatus, et insere: *Antheræ* lineares, longitudinaliter dehiscentes, denique exsertæ. *Filamenta* dilatata, linearia. *Ovarium* oblongum, in stylum filiformem attenuatum. Et adde: Plantæ immersæ vel ad margines rivulorum crescentes; *culmo* brevi, basi radices copiosas cylindricas tenaces emittente; *foliis* longissimis; *pedunculis* numerosis, inter folia assurgentibus, basi vaginatis; *capitulis* subsphæricis; *squamis* ovatis, integris, denique plus minus lacerato-fissis, singulis (inferioribus vacuis exceptis) spiculam tegentibus.

345. "**Pandanophyllum Zeylanicum**, Thw." Post "scabris" insere: *pedunculis* plus minus elongatis, basi squamis vaginatis, superne nudis. Post "Kokoole Corle" adde: Abundant in the Singhe-rajah Forest, and between Kornegalle and Matelle. Pro "*Culmi* plures" lege: *Pedunculi* plures. In adnotatione, pro "male flower" substitue: young spicula; et pro "of the flower" lege: of the spicula.

346. Adde speciem sequentem **Pandanophylli**:—

2. **P. immersum**, Thw.; *foliis* anguste linearibus, subulato-acuminatis, margine lævi vel sublævi; *pedunculis* brevibus, vaginis superioribus foliaceis et capitulum excedentibus.—C.P. 3819.
HAB. Singhe-rajah Forest, in streams.

A *P. Zeylanico* differt foliis angustioribus, margine sublævibus, et pedunculis brevioribus foliatisque.

346. "**Lepironia mucronata**, Rich." Dele "In *Pandanophyllum* the flower" et sequent. ad finem adnotationis.

347. "**ABILDGAARDIA**, Vahl." Species hujus generis sensim in *Fimbristylem* transeunt, et rectius subsectionem ejusdem formabunt. Vide infra.

348. "**Fimbristylis polytrichoides**, R. Br.?" Adde: C.P. 3786.
HAB. Trincomalie, *Rev. S. O. Glenie.*

348. "**Fimbristylis diphylla**, Vahl." Adde:
Var. β. *major.*—*F. rigidula*, N. ab Es. et hujus Enum. p. 348. —C.P. 3232.

348. "**Fimbristylis rigidula**, N. ab Es." Certe varietas *F. diphyllæ*, Vahl. Vide supra.

348. Sub "** *Stigmatibus* 3. *Trichelostylis*" insere
† *Spicæ squamis* 3–*pluri-stichis.*

349. "**Fimbristylis insignis**, Thw." Post "Kornegalle" adde Pasdoon Corle.

349. "**Fimbristylis complanata**, Link." Post "(*in Herb. Hook.*)" adde: Very abundant in the south of the island.

349. Post descriptionem speciei 19mæ *Fimbristylis* insere:
†† *Spica complanata vel plus minus spiraliter torta.*
Squamis distichis. Abildgaardia.

349. "**Fimbristylis connectens**, Thw." Post "District" adde: Abundant at Newera Ellia.

Digitized by Google

Page
350. Adde species sequentes *Fimbristylis:*

22. **F. tenuifolia,** Thw.; *culmo* filiformi, striato, glabro, basi foliato; *foliis* angustis, culmo brevioribus, marginibus involutis, scabrellis; *umbellæ* radiis 2–4, glabris; *involucro* brevi, triphyllo; *spicis* oblongis, acutis, parum tortis, solitariis in radiis, intermedia sessili; *squamis* distichis, paucis, laxis, glabris, late ovatis, subacutis, infra apicem mucronulatis; *floribus* triandris; *stylo* glabro; *caryopsi* late obovoidea, trigona, aspero-tuberculata.—C.P. 3780.
HAB. Ambagamowa District.

Cæspitosa, 1–2-pedalis. *Spicæ* 2–3 lin. longæ. *Squamæ* nigro-ferrugineæ, margine membranaceæ pallidiores. *Caryopsis* pallide fusca.

23. **F. nigro-brunnea,** Thw.; *culmo* rigido, filiformi, sulcato, versus apicem scabro, basi foliato; *foliis* firmis, linearibus, abrupte subacutis, glabris, margine scabridis, culmo sæpius multo brevioribus; *umbella* decomposita, aperta; *radiis* glabris; *involucro involucellisque* diphyllis, brevibus; spicis ovato-oblongis, subacutis, parum tortis; *squamis* distichis, paucis, laxis, glabris, nitidis, ovatis, mucronatis; *floribus* triandris; *stylo* glabro; *stigmatibus* 3; *caryopsi* obovoidea, trigona, aspero-tuberculata.—C.P. 3779.
HAB. Matelle East, *A. O. Brodie, Esq.* South of the island, very abundant.

Cæspitosa, 1–3-pedalis. *Spicæ* 3–4 lin. longæ. *Squamæ* nigro-brunneæ. *Caryopsis* albida.

24. **F. Cinnamometorum,** Kunth.—*Abildgaardia,* hujus Enum. p. 347, cum syn.—C.P. 2752.

25. **F. fulvescens,** Thw.—*Abildgaardia,* hujus Enum. p. 347, cum syn.—C.P. 679.
HAB. Common in the Southern and Central Provinces up to 4000 feet.

26. **F. tristachya.**—*Abildgaardia,* Vahl, et hujus Enum. p. 347, cum syn.—C.P. 852.

27. **F. monostachya.**—*Abildgaardia,* Vahl, et hujus Enum. p. 347, cum syn.—C.P. 3231.

351. "**SCIRPUS,** Linn." Adde:

6. **S. tetraqueter.**—*Eleocharis tetraqueter,* N. ab Es. et hujus Enum. p. 351, cum syn.—C.P. 2397.

7. **S. ovatus,** Roth. (Vahl, Enum. ii. p. 249.)—*Eleocharis ovata,* R. Br. et hujus Enum. p. 351, cum syn.—C.P. 2635.

8. **S. capitatus,** Willd. (Vahl, l. c. p. 250.)—*Eleocharis capitatus,* R. Br. et hujus Enum. p. 351, cum syn.—C.P. 3090.

9. **S. fistulosus,** Poir. Encyc. vi. p. 749.—*Eleocharis fistulosa,* Schult, et hujus Enum. p. 351, cum syn.—C.P. 3162 (3047).

10. **S. plantagineus,** Rottb.—*Eleocharis plantaginea,* R. Br. et hujus Enum. p. 352, cum syn.—C.P. 3046.
Var. β; *culmis* tenuioribus; *squamis* paucioribus, angustioribus et magis distantibus.—C.P. 3777.—HAB. Kornegalle.

11. **S. spiralis,** Rottb. (Roxb. Fl. Ind. i. p. 212.)—*Eleocharis spiralis,* R. Br. et hujus Enum. p. 352, cum syn.—C.P. 853.

Digitized by Google

Page

12. **S. laxiflorus,** Thw.; *culmis* teretibus, aphyllis, striatis, interne regulariter cellulosis nec septis nodosis, basi vaginatis; *vaginis* tubulosis, membranaceis; *spica* solitaria, angusta, cylindrica; *squamis* laxis, ovatis, crebre striatis, late hyalino-marginatis; *caryopsi* late obovata, lenticulari-biconvexa, pluri-costulata, delicatule transversim striata; *setis* 7, caryopsi duplo longioribus, retrorsum spinulosis. An *Eleocharis Sieberi,* Kunth, Enum. ii. p. 153, forma?—C.P. 3762.

HAB. South of the island, and in the Ambagamowa District.

Cæspitosus, 1–2½-pedalis. *Culmi* (sicci) 1 lin. in diam. *Vaginæ* sæpius pulchre purpurascentes. *Spica* pollicaris. *Squamæ* 1½ lin. longæ, pallide virides vel ochraceæ, margine hyalino delicatissime ferrugineo-punctulato. *Caryopsis,* cum setis, albida vel pallide ferruginea.

13. **S. Chætaria.**—*Chætocyperus setaceus,* N. ab Es. et hujus Enum. p. 351, cum syn.—C.P. 247.

351. "**Chætocyperus setaceus,** N. ab Es."=*Scirpus Chætaria.* Vide supra.

351. "**ELEOCHARIS,** R. Br." Cl. Benthamio duce, species hujus generis ad *Scirpum* transtuli. Vide supra.

352. "**RHYNCHOSPORA,** Vahl." Adde:

3/1. **R. gracillima,** Thw.; glabra, *culmis* filiformibus, trigonis, glabris, foliatis; *foliis* culmo conformibus et eodem parum brevioribus; *corymbis* axillaribus terminalibusque, his spicas plures, illis paucas gerentibus, ramis capillaribus, longiusculis, singulis basi foliolis 2 inæqualibus suffultis; *spicis* ovatis, utrinque attenuatis, flores hermaphrod. circiter 4 includentibus; *squamis* late ovatis, parum acuminatis, mucronulatis, inferioribus minoribus vacuis, mucronatis; *floribus* diandris; *stylo* bifido; *caryopsi* rotundata, lenticulari-biconvexa, transverse rugosa, longitudinaliter striolata, basi styli sursum brevi conica deorsum divaricata bifida coronata.—C.P. 3818.

HAB. South of the island.

Dense cæspitosa, 1–2-pedalis. *Spicæ* 3–4 lin. longæ, ¾–1 lin. latæ, fusco-ferrugineæ. *Caryopsis* albida vel pallide fusca.

353. "**SCLERIA,** Linn."

Pro "2. **S. stipularis,** N. ab Es. (Steud. l. c. p. 171, cum syn.?)" insere:

2. **S. hebecarpa,** N. ab Es. in Wight's Contrib. p. 117; Kunth, Enum. ii. p. 343; Steud. Synops. p. 169. Et dele "The present plant" et sequent. ad finem adnotationis.

354. Pro "8. **S. hebecarpa,** N. ab Es. l. c.; Kunth, l. c. p. 357; Steud. l. c.—C.P. 3318," insere:

8. **S. Ceylanica,** Poir. Encyc. vii. p. 3; Steud. Synops. p. 179; N. ab Es. in Wight's Contrib. p. 118; Kunth, Enum. ii. p. 358.—C.P. 3318.

Forma *b*, rigidior, foliis angustioribus.—C.P. 3797.

Forma *c*, paniculis pubescentibus.—C.P. 3796. Adde, post

Digitized by Google

Page

"island:" Abundant on the borders of paddy fields in the Southern Province. Ad descriptionem adde:

Dense cæspitosa, ½–1½-pedalis. *Culmi* triquetri. *Folia* vagina plus minus alata vel acutangula, ligula brevi rotundata aliquando fissa. *Paniculæ* axillares terminalesque, breves, pauciflore. *Caryopsis* rotundata, apiculata, lævis vel obsolete rugulosa, nitida, alba."

358. "**PANICUM**, Linn." Adde:

1/1. **P. corymbosum**, Roxb. Fl. Ind. i. p. 292.—Steud. Synops. p. 38, cum syn.—C.P. 3800.

HAB. Happootelle, at an elevation of 3000 to 4000 feet.

30/1. **P. stenostachyum**, Thw.; glabrum, *culmis* debilibus, elongatis, parce ramosis; *foliis* longiusculis, linearibus, acuminatis, flaccidis, margine scabriusculis, basi subauriculatis, ligula breviciliata; *panicula* stricta, elongatula, rachi subglabra, ramis brevibus distantibus confertifloris; *spiculis* lanceolatis, pedicello longioribus; *gluma inferiore* ovata, subacuta, trinervia; *superiore* parum longiore, 5-nervia, mucronulata; *floribus* æquilongis, gluma superiore duplo longioribus; *neutro* bipaleaceo, palea inferiore late ovata, 7-nervia, apice breve bifida, mucronulata; *hermaphrodito* palea inferiore 5-nervia, mucronulata, minute rugulosa.—C.P. 3845.

HAB.—Trincomalie, *Rev. S. O. Glenie.*

Dense cæspitosum. *Culmi* 2–4-pedales, articulis inferioribus radicantibus. *Panicula* 4–8 poll. longa. *Spiculæ* 1½ lin. longæ.

35/1. **P. asperum**, Wight.—Steud. Synops. p. 49.—C.P. 3846.

HAB. Trincomalie, *Rev. S. O. Glenie.*

Gluma inferior brevis, truncatula, subenervia, pallida; *superior* multoties longior, valde acuminata, plurinervia, aspera, 2½ lin. longa, basi pallida. *Flos inferior* masculus, bipaleaceus; palea inferiore subglabra, lanceolato-acuminata, quam gluma superior parum breviore. *Flos superior* fœmineus, inferiore multo brevior, paleis tenere membranaceis.

358. "**Panicum Helopus**, Trin." Post "cum syn." insere: C.P. 3847. Et post "HAB." insere: Trincomalie, *Rev. S. O. Glenie.* Var. β.

364. "**ISCHÆMUM**, Linn." Adde:

5/1. **I. falcatum**, N. ab Es.—*Andropogon falcatus*, Steud. Synops. p. 369, cum syn.—C.P. 3322.

HAB. South of the island.

Differt ab *I. pectinato*, Trin., apice glumæ inferioris spiculæ sessilis brevialato, nec late appendiculato, ciliis angustioribus magis distantibus et fere duplo longioribus.

365. "**Ischæmum pectinatum**, Trin." Dele "*Andropogon falcatus*, Steud. l. c.—C.P. 3322." Et insere: C.P. 3848. Pro "Hotter parts of the island, in wet ground," substitue: Trincomalie, *Rev. S. O. Glenie.*

366. "**ANTHISTIRIA**, Linn." Adde:

2/1. **A. Cymbaria**, Roxb. Flor. Ind. i. p. 251.—Steud. Synops. p. 399.—C.P. 3803.

HAB. Matelle East.

Digitized by Google

Page

367. Pro "9. **Andropogon pertusus,** Willd.," cum tota descriptione, substitue duas species sequentes, illic errore inclusas:

9. **A. pertusus,** Willd. Sp. Pl. iv. p. 922; Roxb. Fl. Ind. i. p. 258.—C.P. 951.

HAB. Abundant in the warmer parts of the island.

Spicæ versus apicem pedunculi aggregatæ. *Gluma exterior* spicularum omnium vel tantum sessilium foveolata. *Spicula pedicellata* mascula unipaleacea vel neutra epaleacea.

9/1. **A. fascicularis,** Roxb. l. c. p. 265.—An *A. punctatus,* Roxb. l. c. p. 264?—C.P. 411.

HAB. Hot drier parts of the island.

Spicæ fasciculatæ, fasciculis distantibus. *Gluma exterior* spicularum omnium efoveolata vel spicul. nonnullarum sessilium foveolata. *Spicula pedicellata* mascula unipaleacea vel neutra epaleacea.

368. "**HETEROPOGON,** Pers." Adde:

3. **H. insignis,** Thw.; *culmis* robustis, erectis, rigidis, teretibus, foliatis, ima basi ramosis; *foliis* longiusculis, linearibus, acuminatis, sparsim longe pilosis, margine scabris, vagina glabra, apice longe pilosa, ligula brevi, rotundata, glabra; *spica* longiuscula; *spiculis* inferioribus omnibus masculis, superioribus masc. et fœm. intermixtis; *spicul. masc. gluma inferiore* lanceolata, nitida, inconspicue striata, apice obliqua, *superiore* lanceolata, 1-nervia; *spicul. fœm. glumis* æquilongis, coloratis, coriaceis, ferrugineo-pilosis, marginibus involutis; *inferiore* ovato-oblonga, obtusa; *superiore* angustiore, apiculata; *arista* robusta, longissima, fulvo-pilosa.—C.P. 3804.

HAB. Mahning-galla, Matelle East.

Dense cæspitosus. *Culmi* 4–5-pedales. *Folia* 1–2-pedalia, 3–4 lin. lata. *Spica* (aristis inclus.) 8–12 poll. longa. *Rachis* inferiore parte glabra, superne ferrugineo-tomentosa. *Spiculæ masc.:* 6–10 lin. longæ, flavo-virides, superiores gradatim longiores; *paleis* lanceolatis, margine longe pilosis. *Squamulæ* oblongæ, apice dentatæ et longe pilosæ. *Spiculæ fœm.: Glumæ* nigro-ferrugineæ, 4 lin. longæ. *Arista* 4½ poll. longæ.

375. "**Arundinaria debilis,** Thw." Pro "semiverticillatis" lege: semiverticillatos.

375. "**Bambusa attenuata,** Thw." Pro "ramoso-striata" lege: nervoso-striata.

379. "**ANGIOPTERIS,** Hoffm."

Pro "**A. erecta**" lege: **A. evecta.**

379. "**LYGODIUM,** Sw."

Pro "3. **L. Japonicum,** Sw. (Presl; Benth. l. c. p. 442.)," substitue:

3. **L. flexuosum,** Sw.; Spreng. Syst. iv. p. 29; Beddome, Ferns of Southern India, t. lxiii.

381. "**Acrostichum (Gymnopteris) decurrens,** Hook." Clariss. Hooker, in litt. hanc plantam ab ea in Fil. Exot. et in Flor. Hongk. descripta distinctam indicat.

Digitized by Google

Page

381. "**VITTARIA,** Sm." Adde:

3. **V. elongata,** Sw. (Willd. Sp. Pl. v. p. 406; Hook. Sp. Fil. v. ined.)—C.P. 3806.

HAB. Central Province.

In Herb. Perad. species, forsan indescripta (C.P. 3807), adest parva, *caudice* brevi, subrepente, radicante; *radicibus* pilosis; *frondibus* confertis, coriaceis, abrupte acuminatis, obtusiusculis, 2–6 poll. longis, 1½–2 lin. latis; *soris* immersis, a margine frondis parum distantibus.

382. "**Meniscium Thwaitesii,** Hook."=*Polypodium (Goniopteris) proliferum*, Pr., vide infra.

383. "**Asplenium tenerum,** Forst.; Hook. l. c.?" Certe, ut clariss. Hooker ait, forma minor *A. macrophylli*, Sw.

384. "**A. macrophyllum,** Sw." Post "C.P. 1340" insere: 1371. Et pro adnotatione substitue:

Ab *A. caudato*, Forst., differt frondibus magis carnosis, indusio latiore et demum margine arcte revoluto.

386. "**Pteris quadriaurita,** Retz." Post "abortivis" insere: *P. Otaria*, Beddome, Ferns of South. Ind. t. xli. An hybrida inter *P. quadriauritam*, Retz., et *P. crenatam*, Sw.?

388. "**Lindsæa nitens,** Blume." Pro "appropriated" lege: appropriate.

389. "**DAVALLIA,** Linn.

e. *Microlepia*." Adde:

14. **D. proxima,** Blume, En. Fil. Jav. Fasc. ii. p. 238; Hook. Sp. Fil. i. p. 183?—C.P. 3827.

HAB. Oova District, at an elevation of 3000 feet.

Caudex repens, tomentosus, digiti crassitudine. *Stipites* epaleacei, subglabri, rubro-fusci, ½–1 ped. longi. *Frondes* tripinnatæ, lanceolatæ vel deltoideo-lanceolatæ, subtus ad venas sparse pilosæ, 2–3-pedales, rachi scabriuscula. *Pinnæ* (*pinnulæ*que) approximatæ, lanceolatæ, caudato-acuminatæ, alternæ, pinnula (vel lobo) basali sæpius parum majore. *Pinnulæ* pinnatifidæ vel ad basin pinnatæ, lobis falcato-trapezoideis, lanceolatis, acutiusculis vel brevibus, obtusis, crenato-dentatis. *Sori* paullo intramarginales.

390. "**Aspidium aristatum,** Sw." Planta Zeylanica ob indusia reniformia melius, ut cl. Hance in litt. notat, in sectione *Lastrea* includendum.

390. "**A. pteropus,** Kze." Adde:

Var. β?; minor, *frondibus* deltoideis, paucilobatis; *stipite* plus minus alato vel exalato; *frond. sorifer.* segmentis multo angustioribus; *sporangiis* sæpius abortivis vel vacuis.—C.P. 3808.

HAB. Var. β?, Peradenia, amongst plants of *Aspid. pteropus*, Kze., var. α, and *Acrostichum quercifolium*, Retz. Can it possibly be a hybrid between these two species, bearing, as it does, a certain resemblance to the latter?

392. "**A. concinnum,** Thw." Adde: Frondes steriles vix ab iis *A. deparioidis*, Hook., distinguendæ, cui hæc planta valde affinis et forsan ejusdem solum varietas.

392. "**A. sparsum,** Spr." Post "1369" pro "?" insere ,

Digitized by Google

Page 394. "**POLYPODIUM,** Linn." Adde:

3/1. **P. decorum,** Brack. (Hook. Sp. Fil. iv. p. 179, cum syn.) —C.P. 3816.

HAB. Singhe-rajah Forest and in the Hinidoon Pattoo.

11/1. **P. (Goniopteris) lineatum,** Colebr. (Hook. Sp. Fil. v. p. 12, cum syn.)

HAB. Ceylon, *Walker* (*in Herb. Hook.*).

11/2. **P. (Goniopteris) proliferum,** Pr. (Hook. l. c. p. 13, cum syn. *Meniscium Thwaitesii,* Hook. hujus Enum. p. 382.)—C.P. 3145.

Digitized by Google

Digitized by Google

ADDENDA ET CORRIGENDA POSTERIORA.

Page

28. "MALVACEÆ." Adde:

11. MALVASTRUM, A. Gray.

1. **M. carpinifolium,** A. Gray, Plant. Fendler. p. 22, adnot.; Walp. Ann. ii. p. 152, cum syn.—C.P. 3614.
HAB. Colombo, *Mr. W. Ferguson.*

61. Lin. 5. Dele "3596."

78. Pro "4. **GLYCYCARPUS,** Dalzell," substitue:

4. NOTHOPEGIA, Blume, Benth. et Hook. f. Gen. Pl.

Glycycarpus, Dalzell.

1. **N. Colebrookiana,** Blume, Mus. Bot. Lugd. Batav. p. 203; Walp. Ann. ii. p. 281.—*Pegia (?) Colebrookiana,* Wight, Ic. t. 236. *Glycycarpus racemosus,* Dalz. (Walp. l. c. p. 286); hujus Enum. p. 78.—C.P. 1260.

81. "**CROTALARIA,** Linn." Adde:

24. **C. Willdenowiana,** DC. (W. et A. Prod. i. p. 191, cum syn.)—C.P. 3853.
HAB. Colombo, *Mr. W. Ferguson.*

84. "**Sesbania aculeata,** Pers." Adde: Var. *sericea,* Benth. MSS. —C.P. 3850.
HAB. Colombo, *Mr. W. Ferguson.*

87. "**Desmodium ormocarpoides,** DC." Adde: Prod. ii. p. 327.—C.P. 3812.
Post "(*Hb. Hook.*)" adde: Matelle East.

91. "**RHYNCHOSIA,** Lour." Adde:

1/1. **R. suaveolens,** DC. (W. et A. Prod. i. p. 240, cum syn.)—C.P. 3851.
HAB. Near Trincomalie, *Rev. S. O. Glenie.*

95. "**CASSIA,** Linn." Adde:

15. **C. obtusa,** Roxb. (W. et A. Prod. i. p. 288, cum syn.)—C.P. 3843.
HAB. Trincomalie, *Rev. S. O. Glenie.*

Mr. Glenie has also sent me, from Trincomalie, the foliage of what I take to be *Cassia suffruticosa,* Kœnig.

Digitized by Google

Page

119. "**Careya arborea,** Roxb." Post "100.)" adde: An *C. sphærica,* Roxb. Fl. Ind. ii. p. 636; Wight, Ic. t. 556? Et pro "biserialia" in descript. substitue: 2–6-serialia.

124. "**Zanonia Indica,** Linn." Adde ad descriptionem:

FLOR. FŒM. *Calycis* lobi 3–4, valvati, late triangulares, acuti, 2 lin. longi. *Petala* 5, imbricata, carnosa, ovato-oblonga, obtusa, pallide ochracea, 4 lin. longa, apicibus æstivatione valde incurvatis. *Stamina sterilia* 5, petalis alterna, brevia, alba, truncata. *Styli* 3, lobis calycinis parum breviores, late conici, divergentes, facie interna per longitudinem sulco angusto notati, ad apicem stigmatosi, bifidi, lobis reflexis. *Ovarium* 3-loculare, obconico-cylindricum, 6 lin. longum; loculis longis, 2-ovulatis; ovulis ab apice loculi pendulis, anatropis.

128. "**Begonia Thwaitesii,** Hook." Post p. 894, adde: An *B. tenera,* Dryand. in Linn. Trans. i. 169, t. 16.

151. "**BORRERIA,** Mey., DC." Adde:

2. **B. tetracocca,** Thw.; herbacea, procumbens, *ramis* elongatis, acute tetragonis, parum compressis; *foliis* lanceolatis, subsessilibus, scabris; *stipulis* lanceolatis, marginibus nervoque dorsali dense hispido-ciliatis; *floribus* paucis, 2–3 ad apices ramulorum brevium axillarium; *calcyce* hispido, dentibus 4 lanceolatis obtusiusculis; *corollæ* tubo longiusculo; *ovario* quadriloculari, loculis monospermis; *stigmate* bifido, piloso.—C. P. 3859.

HAB. Colombo, *Mr. W. Ferguson.*

176. "**ISONANDRA,** Wight." Adde:

5/1. **I. lanceolata,** Thw.; glabra, *partibus junioribus fasciculis*que *florum* adpresse ferrugineo-pilosis; *foliis* lanceolatis vel oblongo-lanceolatis, obtuse acuminatis, subcoriaceis, superne planis, subtus opacis inconspicue venosis, basi acutis, longiuscule petiolatis; *pedicellis* petiolo brevioribus vel subæquilongis.—C.P. 3679.

HAB. Near Caltura.

Arbor mediocris. *Folia* 3–5 poll. longa, 7–14 lin. lata, petiolo pollicari. *Fasciculi* 3–6-flori. *Calyx* 4 lin. longus.

200. "**Pagræa Zeylanica,** Thunb." Adde: C.P. 1824.

204. "**CANSCORA,** Lam."

Pro "4. **C. perfoliata,** Lam." et seq. substitue:

4. **C. Roxburghii,** Arn. (Miquel, Anal. Bot. Ind. iii. p. 11.)—*C. perfoliata,* Griseb. in DC. Prod. ix. p. 65 (haud Lam.); Wight, Ic. t. 1327, f. 2.—C.P. 1874.

209. "**SESAMUM,** Linn." Adde:

2. **S. occidentale,** Heer et Regel. (DC. Prod. ix. p. 250.)—C.P. 3852.

HAB. Trincomalie, *Rev. S. O. Glenie;* Colombo, *Mr. W. Ferguson.* A common weed in the Botanic Garden, Peradenia.

Digitized by Google

Page

A *S. Indico* tota planta pilosiore, floribus fusco-purpureis, capsula obtusa, et seminibus majoribus differt.

221. "**CHRISTISONIA,** Gardner." Dele: "et forsan *Campbellia*, Wight, et *Oligopholis*, Wight, Ic."

222. "**Christisonia unicolor,** Gardn." Dele: "An *Campbellia cytinoides*, Wight, Ic. t. 1425, cum syn.?"

230. "**BARLERIA,** Linn." Adde:

8. **B. nitida,** N. ab Es. in DC. Prod. xi. p. 224; Wight, Ic. t. 454.—C.P. 3849.

HAB. Trincomalie, *Rev. S. O. Glenie.*

230. "**Barleria cristata,** Linn." Adde: C.P. 2899.

246. "SALSOLACEÆ." Adde:

2/1. **SALICORNIA,** Tourn., Moquin.

1. **S. brachiata,** Roxb. (Moq. in DC. Prodr. 13-2, p. 145, cum syn.; Wight, Icon. t. 738.)—C.P. 3855.

HAB. Jaffna, *Mr. W. Ferguson*, common.

267. "**Sponia orientalis,** Planch." Adde: C.P. 2203.

277. "EUPHORBIACEÆ." Adde:

22/1. **CROZOPHORA,** A. Juss., Baillon.

1. **C. Rottleri,** A. Juss. Euphorb. Tent. p. 28.—C.P. 3854.

HAB. Nillevelly, near Trincomalie, *Rev. S. O. Glenie.*

291. "**TRICHOPODIUM,** Lindl."

Hoc genus certe, ut clar. Klotzsch indicavit, melius DIOSCOREIACEIS adsociandum est.

335. "**Amorphophallus Zeylanicus,** Blume." Adde ad descript.: *A. (?) sylvaticus*, Kunth, Enum. iii. p. 34. *Brachyspatha sylvatica*, Schott, Syn. Aroid. p. 35. *Arum sylvaticum*, Roxb. (Wight, Ic. t. 812.)—C.P. 3733.

HAB. Nillevelly, near Trincomalie, *Rev. S. O. Glenie.*

339 "LILIACEÆ." Adde:

7/2. **UROPETALUM,** Gawl.

1. **U. montanum,** Dalzell in Hook. Kew Journ. of Bot. v. 2 (1850), p. 142.—C.P. 3856.

HAB. Lakkaigalla, Matelle East, *Mr. Thos. W. N. Beckett.*

355. "**Carex Walkeri,** Arn." Dele "not" ante "very common."

358. "**PANICUM,** Linn." Adde:

35/2. **P. sordidum,** Thw.; fluitans, *culmis* elongatis, ramosis, ad nodos pilosis; *foliis* lanceolatis, reflexis, quam vagina glabra brevioribus, superne pilosulis, subtus glabris, margine scabris; *panicula* racemiformi, *ramis* parum confertis, suberectis, singulis spiculam unicam gerentibus et in setam scabram spicula longio-

Page

rem productis; *spicula* lanceolata, acuminata, brevipedicellata; *gluma inferiore* brevi, truncatula vel emarginata, subenervia, pallida; *superiore* multoties longiore, lanceolata, hispida, circiter 9-nervia; *flore masculo* glabro quam gluma inferior parum breviore; *palea inferiore* sub-7-nervia, quam *flos fœmineus* membranaceus ovato-lanceolatus brevistipitatus duplo longiore.—*Chamæraphis depauperata*, N. ab Es., Wight's List, n. 1654 (haud *P. depauperatum*, Muhl.).—C.P. 3857.

HAB. Colombo, *Mr. W. Ferguson.*

Folia pollicaria, circiter 1 lin. lata. *Panicula* 1–1¼ poll. longa. Spiculæ 2 lin. longæ, pallide virides.

P. aspero, Wight, affinis, sed species satis distincta.

359. Pro "13. **P. cruciforme,**" lege: "**P. eruciforme.**"

364. "**Ischæmum barbatum,** Retz." Adde ut synonyma: *Meoschium monostachys*, W. et A., Steud. Synops. Gram. p. 369.

369. "**Dimeria ornithopoda,** Trin., var. δ." Adde ut synonyma: *Pterygostachium Lehmanni*, N. ab Es., Steud. Syn. Gram. p. 413.

370. "**Polypogon Monspeliensis,** Desf." Adde ut synonyma: *P. Zeylanicus*, N. ab Es. Syn. Gram. p. 183.

372. "**Gymnopogon rigidus,** Thw.," est *Dichætaria Wightii*, N. ab Es., Steud. Syn. Gram. p. 145.

372. "**Megalachne Zeylanica,** Thw.," est *Eriachne triseta*, N. ab Es., Steud. Syn. Gram. p. 237.

375. "**ARUNDINARIA,** Rich." Adde:

3. **A. Wightiana,** N. ab Es. (Steud. Syn. Gram. p. 335.)—C.P. 3860.

HAB. Pedrotalagalla, in the Central Province.

392. "**ASPIDIUM,** Sw."

"e. *Lastrea.*" Adde:

31/1. **A. undulatum,** Thw.; *frondibus* tripinnatis, deltoideis, cum stipite stramineo paleaceo æquilongo bipedalibus; *rachi* geniculato-flexuosa; *pinnis primariis secundariis*que deltoideo-lanceolatis, alternis, ad racheos geniculas elegantule deflexis; *pinnulis* rhomboideo-oblongis, plus minus decurrentibus, parce crenulato-dentatis; *soris* solitariis vel paucis, a margine pinnulæ et costula æquidistantibus; *indusio* orbiculari, parum reniformi, demum reflexo nec plicato-contorto.—C.P. 3858.

HAB. Wattakelle, Kalliboka, *Mr. Thos. W. N. Beckett.*

Aspid. sparso, Spr. *var.* β affine, sed differt rachi flexuosa, ramis deflexis et fronde magis composita.

394. "**POLYPODIUM,** Linn."

Pro "**P. elongatum,** Wall. (Hook. l. c. p. 234)," substitue:

P. Walkeræ, Hook. l. c. p. 233.

401. "**TRIUMFETTA,** Plum."

Pro "1. **T. pilosula,** Thw.," substitue:

3. **T. neglecta,** W. et A. (Prod. i. p. 75.)

Digitized by Google

INDEX OF NATIVE NAMES.

	Page
Aachariyapaloo	89
Ac-malla	165
Ahalla-gass	95
Ahoo-gass	145
Aikawaireya	191
Akka-paana	129
Alanga	211
Alareya-gass	72
Albadda-gass	59
Allandoo-gass	263
Aloobo-gass	116
Aloo-gass	320
Amba-kaha	316
Ambala	205
Ambaralla-gass	78
Ammoo	358
Amookkara	217
Andanahiriya	81
Andara-gass	99
Anoda	27
Appela	31
Arramana	96
Aswenna	87
At-addeya	161
Atambooroo-gass	200
Atbamikeeriya	320
At-demmata	244
At-nairenchee	209
Attaireya	45
Attakirilla-gass	71
Atta-kirindi-wel	201
Attamba-gass	75
Attameeriya	213
Attatora	91
Attawarella-gass	59
Atteekka-gass	267
Attoona	29
Attora	360
Awaree	83
Babilla	27
Badoolla-gass	76
Bairaleya	35
Baireya-gass	103
Bairoo-deyanella	123
Bairoo-gass	279
Bakmee-gass	137
Bala-gass	78
Balloo-dang	174
Balloonakoota	241
Bāloleyā	86
Bandoorā-wel	291
Batta-gass	376
Batta-domba-gass	116
Batta-kerilla-gass	54
Battoo-karawilla	126
Bellipatta	26
Bim-pōl	339
Bin-dadakeeriya	269
Bindara	203
Bin-karral-habba	249
Bin-kohōmba-gass	59
Bin-nooga	197
Bin-seyembala	96, 97
Bin-tal	291
Bin-tambooroo	211
Bo-gass	264
Bokaara-gass	71
Bōmboo-gass	184
Bo-mee-gass	255
Boo-ambilla-gass	289
Boo-dadakeeriya	269
Boogat'teya	25
Boo-hora-gass	33
Boo-kanda-gass	272
Boo-kattoo-handa	215
Bookinda	12
Boolat-wel	292
Booloo-gass	103
Boo-nooga-gass	265
Boo-pilla	84
Booroola-gass	64
Booroota-gass	61
Boo-sairoo-gass	243
Boo-tora	96
Bootsarana	320

Digitized by Google

	Page
Bowitteya	104, 106
Caahepittang	13
Caaleya	31
Cabal-mārā-gass	100
Cadjoo-gass	75
Cadol-gass	120
Cahaata-gass	119
Calateya-gass	100
Calla-wel	92
Caloocaara	7
Canna-gona-gass	262
Carawilla-cabilla-gass	289
Carrow-gass	281
Cobbai-gass	55
Colong-gass	137
Cōng-gass	58
Cora-caha	111
Daawoo-gass	103
Dada-kaha	316
Dada-kaihel	336
Dalook-gass	268
Dang-gass	117
Dat-kateya	9, 139
Dawal-kooroondoo-gass	257
Dawata-gass	121
Del-gass	262
Deya-danga-gass	206
Deya-eringoo	72
Deya-habarella	321
Deya-kirilla	209
Deya-kirindi-wel	52
Deya-mānil	324
Deya-midella-gass	119
Deya-mitta	13
Deya-nā-gass	50
Deyanella	208
Deyapara	4
Deya-parandella	331
Deya-ratmal	97
Deya-seyembala	85
Deya-wawoolatteya	95
Diwi-addeeya	212
Diwi-kadooroo-gass	192
Diwool-gass	48
Dodang-paana-gass	45
Domba-keena-gass	52
Domba-gass	51
Dool	194
Doon-gass	35
Doonoo-kaiyeya	327
Dootoo-satootoo	220
Dorana-gass	34
Dotaloo-gass	328
Eela-gass	243
Eepaatta	133
Eereerajah	313
Eeereya-gass	11
Ella-dadakeeriya	268
Ella-gokatoo-gass	50
Ella-midella-gass	119
Ella-nettol	245
Ellawel	319
Ensal	318
Ereeweriya	238
Eremoosoo	195
Errabadoo-gass	89
Erramineya-wel	74
Gadoomba-gass	267
Gahala	335
Gal-karanda	97
Gal-kopprawalleya	238
Gallis-gass	159
Gal-mendora-gass	97
Gal-mora-gass	102
Gal-seyembala-gass	97
Gal-weraloo-gass	32
Gam-mirris-wel	293
Gammāloo-gass	92
Gandapaana-gass	43
Gang-kolang-kola	239
Gang-mee	175
Gass-dool	261
Gass-kaala	89
Gass-kahambillya	259
Gass-kappiteya	275
Gass-karral-habba	249
Gass-kyla	285
Gass-nettool	266
Gass-nidikoomba	99
Gass-pinna	243
Gass-pitcha	154
Gatta-cola	142
Gatta-demmata	244
Gatta-nittool	264
Gattatoomba	241
Geddekillala-gass	123
Gendakola	23
Gherriatta-gass	189
Gim-pōl	327
Girripatā	321
Girritilla	209
Goda-kadooroo-gass	201
Goda-mānil	324
Godapara	5
Goda-wawool-atteya	95
Gojabbā	357
Gokatoo-gass	49
Goloo-bailoo	323
Goloo-mora-gass	254
Gona-gass	180

Digitized by Google

	Page
Gona-kola	218
Gonapittan-wel	188
Gona-wel	188
Gōng-kakiree	127
Gōng-kadooroo-gass	201
Gooranda-gass	267
Goraka-gass	48
Goyang	357
Goya-wel	340
Haamanilla	239
Habarella	336
Haddoka-gass	274
Hakambala	128
Hakkarilla	216
Halamba-gass	137
Hal-gass	37
Hal-mililla	32
Hampalanda-gass	103
Hamparandella-gass	273
Hampilla	92
Hampinna	86
Hanna	81
Haran-kaha	316
Hātāwaareya	337
Hawaree-maddoo	211
Heen-ambilla-gass	289
Heen-appela	25
Heen-bintal	324
Heen-bowitteya	104
Heen-gendakola	23
Heen-gotoocola	130
Heen-himbootoo-wel	53
Heen-kabarosa	338
Heen-moodoomahana	164
Heen-maapiritta	26
Heen-oondoopeyelli	86
Heen-talla	236
Heen-tambala	214
Herimanadatta	241
Hig-gass	78
Hik-gass	78
Himbootoo-wel	53
Hingool-gass	60
Hingooroo-wel	99
Hirritalla	326
Homedereya-gass	181
Hondala	128
Hondapara	5
Hoolanghik-gass	61
Hoolankeeriya	320
Hoonoo-kirilla-gass	285
Hoorakandoo-gass	72
Hooree-mārā-gass	100
Hora-gass	33
Illook	369
Imbool-gass	28
Indee (*Phœnix sylvestris*)	329
Indooroo	340
Ingini-gass	201
Itta	132
Jaawaal	326
Kaakoona-gass	79
Kabella-gass	288
Kadoombaireya-gass	181
Kadoopāra	166, 167
Kadoorookettya-gass	103
Kaha	316
Kaha-andanaheriya	81
Kaha-kaala-gass	179
Kaha-pettang	98
Kahata-kondol	326
Kakala-gass	9
Kallandooroo	343
Kaloo-habaraleya-gass	183
Kaloo-kadoombaireya-gass	180
Kaloo-kangwaireya	216
Kaloo-midereya-gass	180, 181
Kaloowara-gass	180
Kaloowaraneya	233
Kana-goraka-gass	49
Kanda-gass	274
Kandalla	335
Kangkoombala	195
Kangkoombala-gass	71
Kangkoombala-katteya-gass	102
Kangkoong	211
Kanna-kidāran	335
Kāooloo	361
Kappooroo	170
Kappooroo-gass	398
Kappootoo-bo-gass	265
Karanda-gass	191
Karapinchee-gass	46
Katakaloowa	106
Katambilla	18
Kattakaala-gass	279
Katta-keeriya	320
Katteya-gass	68
Kattoo-andara-gass	90
Kattoobodde	28
Kattoo-herileya-gass	28
Kattoo-keena-gass	69
Kattoo-kenda-gass	17
Kattoo-kittool-gass	328
Kattoo-kooroondoo-gass	16, 17
Kattoo-imbool-gass	28
Kattoo-oona-gass	375
Kattoo-pilla	281
Kattoo-timbool	263
Kattoo-wel-battoo	217

Digitized by Google

	Page
Kattoo-wella	326
Keekirrindee	164, 357
Keena-gass	51
Ken-handa	243
Kerindi-wel	80
Kettula	334
Kidāran	335
Kirri-angoona	199
Kirri-baddoo	210
Kirri-handa	247
Kirri-kōng-gass	61
Kirri-kondōl	326
Kirri-makooloo-gass	269
Kirriwalla	145
Kirriwalla-gass	194
Kirriwarala-gass	178
Kirriwel	194
Kittool-gass	329
Kohōmba-gass	60
Kok-mota	341
Kokoon-gass	52
Koloowala	319
Koodāloo-mal	65
Koodoo-kooroondoo-gass	253
Koodoo-mirris-wel	69
Koombaloo-gass	69
Koombook-gass	104
Koombooroo-wel	95
Kooppamaineya	271
Koorakkan	371
Koora-tampala	248
Kooroondoo-gass (*Cinnamomum*)	252
Kopprawalleya	238
Korasawel	2
Kosbadda-gass	254
Kōs-gass (*Artocarpus integrifolia*)	262
Kota-dimboola-gass	267
Kotakan-babilla	28
Kowakka	128
Lainaterri-gass	328
Lawooloo-gass	174
Layoo	356
Leeneya-gass	28
Leeyang-gass	79
Lingoorella	326
Loloo	214
Lonkenda	316
Loonoo-ankenda-gass	69
Loonoo-dang-gass	173
Loonoo-madala-gass	206
Loonoo-midella-gass	59
Loonoo-warana	15
Loonoo-weela	218
Maana	367
Maassenda	138

	Page
Mā-banda	209
Mā-bintal	324
Mā-dang-gass	116
Madara-gass	280
Madateya-gass	98
Maddeya-gass	191
Maddo-gass	294
Mādeya-jāwāla	325
Madol-gass	49
Madooroo-talloo	236
Magoolkaranda-gass	92
Maha-badoolla-gass	75
Maha-bairoo-gass	279
Maha-booloo-mora-gass	79
Maha-bowitteya	106
Maha-deya-dool	260
Maha-doomooda	210
Maha-erramineya	74
Maha-gotoocola	130
Maha-kabarosa	338
Maha-kohilla	336
Maha-nooga-gass	265
Maha-oodoopeyelli	86
Maha-yakwanassa	241
Mainairee	360
Makooloo-gass	19
Malabodde	11
Malalaboo	292
Malkaara-gass	70
Malla	42
Mallabattoo	216
Mandora-gass	37
Maoossa-gass	259
Marang-gass	118
Mā-ratmal-gass	71
Masmoroo-gass	98
Matabimbeya-gass	172
Mā-waiwel	330
Mee-gass	175
Meegōng-karapinchee	46
Meemini-mārā	100
Meriya-gass	176
Meeyan-mililla-gass	244
Middee-gass	242
Mililla-gass	244
Mokoonoo-wanna	250
Monera-koodimbeya	160
Monera-pattang	338
Moodoo-bin-tambooroo	211
Moodoo-dadakeeriya	269
Moodoo-kadooroo-gass	192
Moodoo-kaiyeya	327
Moodoo-moroonga	94
Moonemal-gass	175
Moohoodoo-gattacola	151
Mooroota-gass	122
Moowa-keeriya	196

Digitized by Google

	Page
Mora-gass	58
Myla-gass	98
Naapiritta	26
Nadoong-gass	93
Nā-gass	50
Naha-gass	251
Narawella	1
Natton-gass	9
Nawa-handee	268
Nelli-gass	282
Nelloo	223
Neyadandoo	316
Neyadasse-gass	41
Neyanda	338
Neyangalla	339
Neyang-rata-coloo	126
Nikka-gass	244
Nil-andanahiriya	81
Nil-katarodoo	88
Nil-pitcha	153
Nooga-gass	265
Odootalau	239
Okaiyeya	327
Okooroo-gass	272
Olinda-wel	91
Oloo	205
Oogoorasse-gass	17
Oolooloo-gass	254
Oona-gass	375
Oonoonoo-gass	103
Oorookannoo-gass	43
Ooroo-tora	95
Ooyala	326
Paawetta	233
Painaira-wel	54
Painee-bāroo	366
Palang-gass	72
Palenga-gass	287
Paloo-gass	175
Pambooroo-gass	45
Pangaree-koorondoo-gass	253
Panoo-alla	335
Panoo-condōl	326
Panoo-kaara-gass	117
Pat-kaala-gass	280
Patook-gass	268
Pat-paadagau	24
Patta-appele	25
Pawetta	156
Pehimbia-gass	59
Pelilla	133
Penella-gass	55
Pennit-tora	95
Pilla	84
Pitcha	189
Pitta-sooddoo-pala	245
Pittawaaka	282
Pōl-gass	230
Pōl-hoonoopala	248
Poopoola	160
Poos-wel	98
Poowak-gass	327
Pota-wel	337
Radaleya-gass	80
Ranawarā	96
Rankeeriya	320
Ranmanissa	340
Ranwau-keekerindi	165
Rasnee	170
Rassakinda	12
Rata-boolat-wel	292
Rata-ensal	318
Rata-gowa	129
Ratambala	155
Rata-tora	90
Rat-kihiri-gass	99
Rat-nettol	245
Rateo-waa	95
Rat-pittawaakka	270, 282
Rawaniddala-gass	59
Rawaniddala (*Wendlandia*)	159
Ritti-gass	264
Rookattana-gass	194
Rook-gass	11
Saarana	23
Saayam-mool	144
Saipaala-gass	190
Samadera-gass	70
Seenook-gass	268
Seewana-maddeya-gass	266
Seyembala-gass	95
Siribo	292
Soodoo-kadoombaireya-gass	179
Sooddoo-idda	193
Soodoo-leyang-gass	281
Soodoo-nikka-gass	244
Soodoo-pooroo-gass	233
Soodoo-toomba	240
Sooreya-gass	27
Soovanda-gass	50
Taccāda	169
Taccada-gass	189
Taiboo-gass	320
Tal-gass	329
Talla-gass	329
Tambaleya-gass	114
Tammanna-gass	428
Tampala	247

Digitized by Google

	Page
Tanna-patā	322
Tarrana-gass	158
Telemboo	29
Tellakeeriya-gass	269
Tel-talla	209
Tetti-gass	19
Tetti-wel	12
Tibbootoo	217
Timberee-gass	178
Tinneya-gass	35
Tippili	292
Titta-hondala	127
Tolabo	324
Toomba-karawilla	126
Toompat-kooroondoo	45
Totilla-gass	206
Trasta-waaloo	212
Vatta-coloo	126
Velenga-gass	30
Visnoo-kraanta	213
Waa-gass	96
Waaweya	12
Wadakaha	337
Waila	14
Wai-wel	330
Wall-ahalla-gass	96
Wall-ahattoo	266
Wal-asamodagan	130
Wal-awara	88
Wal-biling-gass	69
Wal-oölloo	91
Wal-copee	157
Wal-gammirris-wel	293
Wal-gona-gass	266
Wal-gooranda	243
Wall-ingooroo	315
Wal-jambo-gass	115
Wal-kaha	316
Wal-kahambilleya	259
Wal-kaihel-gass	321
Wal-kakoona-gass	278
Wal-karapinchee-gass	47
Wal-kidāran	335
Wal-kolondoo	165
Walla-gass	251
Wallangereya	47
Walloo-keena-gass	51
Wal-loonoo	324
Wal-maa	89
Wal-mooroonga	285
Wal-patpaadagam	144
Wal-rasakinda	124
Wal-sappoo-gass	5
Wall-teekola	165
Wal-tibbootoo	217
Wal-wareka	19
Wanna-rajah	314
Waranneya	142
Warra	196
Wayoopaloo	1
Weela	219
Weera-gass	287
Wel-ambilla	172
Wel-kahambilleya	270
Wel-kappiteya	275
Wel-kyla	282
Wellapeyenna-gass	119
Welle-wenne-gass	278
Wellicaha	110
Weniwel	12
Weraloo-gass	32
Wissak-mal	297
Yakbaireya	81, 82
Yak-errabadoo-gass	89
Yak-komadoo	126
Yakwanassa	240
Yuccahaaloo-gass	35
Yucca-naara-gass	46

Digitized by Google

INDEX OF C.P. NUMBERS.

C.P.	Page	C.P.	Page	C.P.	Page	C.P.	Page
1	375	44	161	87	143	130	373
2	155	45	177	88	143	131	341
3	346	46	177	89	235	132	166, 422
4	131	47	177	90	237	133	150
5	282	48	48	91	141	134	101
6	64, 409	49	65	92	145, 420	135	131
7	22, 400	50	267	93	141	136	100
8	33	51	152	94	141	137	204
9	4	52	105	95	143, 419	138	106
10	255	53	251	96	141	139	142
11	114	54	282	97	142	140	65
12	81	55	91	98	143, 419	141	5
13	140	56	118	99	141	142	234
14	265	57	146, 420	100	359	143	215
15	174	58	85	101	141	144	370
16	237	59	364	102	140	145	131
17	238	60	373	103	141	146	123
18	147	61	341	104	142	147	163
19	163	62=44	161	105	143	148	72
20	160	63	107	106	143	149	170
21	162	64	17, 400	107	142	150	160
22=579	73	65	370	108	142	151	167
23	186	66	229	109	141	152	162
24	369	67	27	110	140	153	20
25	54	68	286	111	141	154	239
26	239	69	368	112	142	155	186
27	161	70	373	113	142	156	65
28	174	71	283	114=88	143	157	153
29	264	72	257	115	141	158	148
30	288	73	136	116	142	159	12
31	65	74	256	117	143	160	118
32	367	75	338	118	152	161	12
33	239	76	20	119	141	162	228
34	165	77	114	120	141	163	77
35	293	78	186	121	143	164	160
36	174	79	255	122	143	165	184
37	252	80	146, 420	123	141	166	33
38	203	81	364	124=88	143	167	256
39	136	82	150	125	144	168	13
40	255	83	252	126	141	169	13, 160
41	351	84	237	127	187	170	112
42	170	85	231	128	244	171	73
43	71	86	141	129	104	172	33

Digitized by Google

C.P.	Page
173	108
174	185
175	12
176	370
177	59
178	282
179	177
180	45, 406
181	17, 400
182	130
183	195
184	22
185	158
186	232
187	201
188	46
189	251
190	154
191	177
192	177
193	243
194	10
195 = 185	158
196	273
197	126
198	134
199	352
200	293
201	74
202	71
203	290
204	42
205	139
206	251
207	310
208	105
209	91
210	152
211	17, 400
212	241
213 = 152	162
214 = 203	290
215	139
216	161
217	239
218	71
219	346
220	341
221	11
222	54
223	255
224	91
225	131
226	310
227	308
228	234
229	221
230	255
231 = 163	77
232	4
233	266
234	164
235	175
236	360
237	332
238	
239	2
240	224
241	376
242	52
243	94
244	6
245	159
246	78
247	351, 435
248	4
249	236
250	203
251	44, 405
252	274
253	3
254	228
255	231
256	92
257	234
258	286
259	28
260	22, 400
261	150
262	290
263	252
264	237
265	2
266	229
267	156
268	139
269	82
270	170
271	187
272	167
273	185
274	118
275	188
276	108
277	172
278	171
279	92
280	81
281	374
282	361
283	239
284	104
285	173
286	138
287	111
288	202
289	146, 420
290	146, 420
291	117
292 = 42	170
293	59
294	161
295	136
296	282
297 = 148	72
298	184
299	5
300	59
301	235, 229
302	240
303 = ?3789.	
304	256
305	
306	351
307 = 23	186
308	338
309	227
310	230
311 = 266	229
312	371
313	77
314	362
315	159
316	32
317	252
318 = 34	165
319 = 42	170
320	283
321	256
322	49
323	80
324	98
325	243
326	
327	282
328	97
329	71
330 = 2516.	
331	267
332	67
333	149
334	138
335	49
336	136
337	100
338	5
339	4
340	146, 420
341	201
342	285
343	239
344	150
345 = 265	2
346	202
347	138
348	145, 420
349	109
350	116
351	255
352	207
353	109
354	146
355	149
356	257
357	146, 420
358	208
359	139, 419
360	255
361	145, 420
362	138
363	202
364	224
365	114
366	327
367	82
368	185
369	197, 424
370 = 358	208
371	39, 404
372	67
373	7
374	71
375	44, 405
376	174
377	341
378	341
379	266
380	118
381	133
382	181
383	312
384	314
385	107
386	69
387	111
388	79, 410
389	161
390	149
391	150
392	253
393	253
294	177
395	207
396	270
397 = 9	4
398	225
399	235

Digitized by Google

C.P.	Page
400	24
401	365
402	71
403	163
404	234
405	60
406	155
407	186
408=203	290
409	72
410=15	174
411	367, 437
412	136
413	258
414	254
415	19
416	11
417	255
418	115
419	366
420	166
421	33
422	146, 152, 420
423	146, 420
424	5
425	237
426	107
427	383
428	156
429	376
430	167
431	140
432	283
433	150
434	22
435	167
436	67
437	9
438	187
439	93, 414
440	202
441	104
442	149
443	57
444	167
445	114
446	3
447	123
448	155
449 (499 in err.)	139, 418
450	373
451	123
452	118
453	67
454	363
455	65
456	259
457	202
458	156
459	167
460=164	160
461	237
462=156	65
463	115
464	64, 409
465	20
466	142
467	291
468	18
469	250
470	118
471	78
472	189
473	184
474	135
475	188
476	68
477	183
478	73
479	136
480	136
481	136
482=216	161
483	265
484	139
485	301
486	107
487	160
488	304
489	304
490	68
491	290
492	43
493	54
494=475	188
495	42
496	60
497	44
498	242
499	210
500=189	251
501	282
502	251
503	65
504	184
505	152
506	105
507	106
508	131
509	234
510	283
511=150	160
512	203
513	162
514	309
515	131
516=203	290
517	22
518	300
519	264
520	1
521	170
522	308
523	310
524	84, 85
525	220
526	82
527	239
528	166, 422
529	170
530	131
531	170
532=19	163
533	167
534=203	290
535	218
536	59
537=335	49
538	69, 409
539	32
540	129
541	129
542	207
543	296
544	202
545	28
546	335
547	65
548	170
549	132
550	312
551	163
552	236
553	323
554	32
555	184
556=335	49
557	275
558	60
559	132
560	163
561	158
562	55, 408
563	71
564	
565	167, 142
566	160
567	161
568	166, 422
569	71
570	94
571	
572	68
573	183
574	297
575	133
576	5
577	276
578	277
579	73
580	59
581	167
582	184
583	237
584	139, 419
585	148
586	148
587	255
588	118
589	73
590	333
591	225
592	22, 400
593	296
594	162
595	138
596	279
597	313
598	314
599=598	314
600	105
601	115
602	50
603	50, 407
604	404
605	56
606	232
607	56
608	
609	115
610	173
611	213
612	320
613	300
614	15
615	9
616=491	290
617	5
618	103
619	176
620	328
621	32
622	184
623	173
624	32
625=42	170
626	185

Digitized by Google

C.P.	Page
627	188
628	252
629	17, 400
630	32
631	76, 410
632	299
633	304
634	117
635	77
636=201	74
637	42
638	102
639=335	49
640=529	170
641	76, 410
642	32
643	170
644	100
645	370
646	103
647	184
648=491	290
649=557	275
650	283
651	272
652	219
653	97
654	270
655	132
656	272
657	159
658	53
659	53
660	289
661	88
662=349	109
663	88
664	153
665	184
666	300
667	300
668	350
669	148
670	167
671=167	256
672=638	102
673	185
674	257
675	33
676	185
677	352
678	343
679	347, 434
680	1
681	166
682	232
683	163
684	165
685	68
686	235
687	237
688	167
689=775	41
690	250
691	164
692=27	161
693=694	3
694	3
695	138
696 (695 in err.)	274
697	92
698	244
699	59
700	364
701	233
702	155
703	59
704	33
705	391
706=690	250
707	139, 418
708	235
709	359
710	359
711	140
712	140
713	233, 234
714	391
715	22, 400
716	268
717	196
718=913	359
719=334	138
720	90
721=368	185
722	243
723	218
724	190
725	67
726	27
727	26
728	154
729	255
730	31
731	50
732	64
733	114
734	28
735	117
736	56
737	337
738	199
739	155
740	174
741	173
742	156
743	50
744	99
745=658	53
746	159
747	243
748	155
749	80
750	140
752	305
753	158
754	308
755	50
756	194
757	200
758	416
759	156
660	133
761	94
762	44, 405
763	117
764	111
765	144
766	289
767	158
768=388	79
769=748	155
771	156
772	94
773	289
774	199
775	41, 405
776	41, 405
777	41
778	40, 405
779	40, 405
780	137
781=1658	137
782	40, 405
783	41, 405
784	41
785	41
786	41
787	41
788	40
789	341
790	341
791	341
792	341
793	341
794	341
795	341
796	341
797	344
798	342
799	343
800	342
801	342
802	342
803	343
804	343
805	343
806	342
807	342
808	343
809	344
810	344
811	344
812	342
813	344
814	345
815	344
816	345
817	345
818	345
819	347
820	355
821	355
822	355
823	349
824	355
825	353
826	354
827	354
828	353
829	350
830	348
831	351
832	348
833	348
834	350
835	350
836	349
837	349
838	349
839	348
840	348
841	348
842	349
843	349
844	340
845	353
846	350
847	351
848	348
849=41	351
850	351
851	350
852	347, 434
853	352, 434
854	350
855	344

Digitized by Google

C.P.	Page	C.P.	Page	C.P.	Page	C.P.	Page
856	358	913	359	973	391	1030	6
857	358	914	372	974	391	1031	6
858	358	915	370	975	392	1032	6
859	358	916	372	976	382	1033	8
860	358	917	366	977	381	1034	10, 398
861	358	918	360	978	387	1035	10, 398
862	358	919	362	979=1314	380	1036	10
863	358	920	374	980	379	1037	9
864	359	921	374	981 (281)	381	1038	9
865	358	922	374	982	388	1039	11
866	368	923	374	983	389	1040	7
867	364	924	376	984	377	1041	10, 398
868	364	925	373	985	377	1042	9
869	364	926	373	986	377	1043	9
870	364	927	373	987	377	1044	9
871	368	928	373	988	395	1045	6
872	363	929	373	989	380	1046	278
873	364	930	373	990	391	1047	386
874	365	931	373	991	393	1048	387
875	365	932=925	373	992	391	1049	13
876	374	933	373, 371	993	396	1050	13
877	356	934	372	994	364	1051	12
878	357	935	374	995	368	1052	13
879	362	936	366	996	366	1053	12
880	361	937	371	997	340	1054	13
881	362	939	371	998=997	340	1055	12
882	360	940	366	999	340	1056	12
883	360	941	371	1000=796	341	1057=1050	13
884	373	942	357	1001	341	1058	15
885	361	943	363	1002=61	341	1059	15
886	359	944	363	1003	340	1060	15
887	359	945	363	1004		1061	53
888	359	947	362	1005	384	1062	15
889	359	948	370	1006	383	1063	16
890	360	949	368	1007	383	1064	15
891	359	950	369	1008	384	1065	15
892	360	951	367, 437	1009	1	1066	15
893	360	952	369	1010	383	1067	14
894	360	953	367	1011	1	1068	14
895	359	954	371	1012	1	1069	16
896	357	955	369	1013	4	1070	15
897	359	956	369	1014	2	1071	16
898	359	957	369	1015	2	1072	15
899		958	371	1016	2	1073	14
900	359	959	368	1017	14, 399	1074	264
901	359	960	362	1018=1019	14	1075	18, 400
902	359	961	366	1019	14	1076	17, 400
903	359	962	366	1020	14	1077	17, 400
904	359	963	366	1021	14	1078	41
905	359	964	360	1022	14	1079	22
906	361	965	343	1023		1080	22
907	361	966	343	1024	290	1081	22
908	361	967=241	376	1025	275	1082	22
909	361	968	369	1026	12	1083	22, 400
910	361	970	349	1027	12	1084	21
911	358	971	360	1028	5	1085	21
912	361	972	357	1029	7	1086	22

Digitized by Google

C.P.	Page	C.P.	Page	C.P.	Page	C.P.	Page
1087	20	1144	29	1202	47	1260	78, 441
1088	21	1146	30	1203	46, 406	1261	78
1089	21	1147	41	1204	47	1262	95
1090	25	1148	60	1205	48	1263	78
1091	25	1149	79	1207	67	1264	81
1092	24	1150	57, 60	1208	67	1265	81
1093	250	1151	55	1209	67	1266	81
1094	24	1152	58, 408	1210	68	1267=1265	81
1095	24	1153	58, 408	1211	66	1268	81
1096	24	1154	58, 408	1212	66	1269	82
1097	24	1155	58	1213	65	1270	81
1098	23	1156	55	1214	42	1271	81
1099	245	1157	27	1215	42	1272	82
1100	23	1158	59	1216	42	1273	81
1101	24	1159	59	1217	20	1274	81
1102	23	1160	61	1218	42	1275	81
1103	23	1161	78	1219	42	1276	82
1104	23	1162	61	1220	103	1277	82
1105	31	1163	61	1221	71	1278	82
1106	31	1164	52	1222	70	1279	86
1107	31	1165	53	1223	70	1280	91
1108	32	1166	53	1224	70	1281	381
1109	32	1167	53	1225	72	1282	394
1110	31	1168	53	1226=43	71	1283	393
1111	31	1169=25	54	1227	73	1284	394
1112	31	1170	51	1228	72	1285	394
1113	31	1171	51	1229=579	73	1286	393
1114	29	1172	48	1230	67	1287	391
1115	32	1173	50	1231	79	1288	394
1116	121	1174	62	1232	72	1289	394
1117	26	1175	63	1233	75	1290	394
1118	26	1176	63	1234	158	1291	392
1119	26	1177	62	1235	72, 409	1292	382
1120	26	1178	63	1236	74	1293	382
1121	27	1179	63	1237	42	1294	395
1122	26	1180	62	1238	75	1295	395
1123	28	1181	62	1239	75	1296	395
1124	28	1182	62	1240	74	1297	395
1125	26	1183	62	1241	74	1298	395
1126	26	1184	63	1242	74	1299	390
1127	30	1185	25	1243	74	1300	390
1128	30	1186	27	1244	23	1301	395
1129	25	1187	25	1245	79	1302	382
1130	28	1188	64	1246	20	1303	381
1131	28	1189	64	1247	20	1304	381
1132	27	1190	64, 409	1248	19	1305	382
1133	27	1191	45	1249	69, 409	1306 ⎫	
1134	27	1192	45, 406	1250	69	1307 ⎬ =1305	382
1135	27	1193	61, 409	1251	69	1308 ⎭	
1136	30	1194	45, 405	1252	69	1309	382
1137	28	1195	47, 48	1253=1252	69	1310	380
1138	28	1196	46, 405	1254	23, 401	1311	380
1139	278	1197	47, 406	1255	78	1312	380
1140	29	1198	44	1256	75	1313	380
1141	28	1199	45	1257	76	1314	380
1142	29	1200	45	1258	76	1315	380
1143	28	1201	47	1259=1257	76	1316	381

Digitized by Google

C.P.	Page
1317	381
1318	381
1319	381
1320	387
1321	387
1322	387
1323	387
1324	387
1325	387
1326	387
1327	387
1328	386
1329	386
1330	386
1331=1048	387
1332	386
1333	381
1334	383
1335	385
1336	383
1337	383
1338	383
1339	384
1340	384
1341	384
1342	386
1343	385
1344	385
1345	385
1346	385
1347	385
1348	384
1349	385
1350	385
1351	386
1352	385
1353	385
1354	390
1355	390
1356	390
1357	390
1358	390
1359	391
1360=1359	391
1361	392
1362	392
1363	391
1364	392
1365	393
1366	389
1367	390
1368	392
1369	392
1370	392
1371=1340	384
1372	384
1373	390
1374	393
1375	392
1376	393
1377	393
1378	393
1379	388
1380	388
1381	388
1382	388
1383	388
1384	389
1385	389
1386	389
1387	389
1388	389
1389	388
1390	397
1391	397
1392 } =1390	397
1393 } =1390	397
1394	397
1395	397
1396	397
1397	389
1398	396
1399	396
1400	396
1401	396
1402=1398	396
1403	396
1404	379
1405	379
1406	379
1407	379
1408	378
1409	378
1410	378
1411	378
1412	377
1413=1412	377
1414	377
1415 (1115 in error)	377
1416	377
1417	377
1418	377
1419	377
1420	378
1421	378
1422	378
1423	92
1424	91
1425	86
1426	87
1427	87
1428	87
1429	86
1430	87
1431	86
1432	87
1433	87
1434	87
1435	86
1436	86
1437	85
1438	85
1439	91
1440	91
1441	91
1442	91
1443	84
1444	84
1445	84
1446	84
1447	84
1448=1447	84
1449	84
1450	86
1451	84
1452	82
1453	83
1454	83
1455	83
1456	83
1457	83
1458	83
1459	83
1460	83
1461	83
1462	83
1463	83
1464	89
1465	89
1466	91
1467	91
1468	88
1469	90
1470	90
1471	88
1472	90
1473	89, 412
1474	90
1475	90
1476	90
1477	88
1478	90
1479	89
1480	89
1481	88
1482	90
1483	89
1484	88
1485	88
1486	84
1487	94
1488=1487	94
1489	92
1490	92
1491	93
1492	93, 413
1493	92, 413
1494	92
1495	92
1496	94
1497	98
1498	98
1500	97
1501	95
1502	95
1503	96
1504	96
1505	95
1506	96
1507	95
1508	96
1509	96
1510	96
1512	84
1513	84
1514	85
1515	85
1516	99
1517	100
1518	100
1519	99
1520	99
1521	99
1522	
1523	99
1524	94
1525	95
1526	96
1527	95
1529	100
1530	100
1531	100
1532	102
1533	101
1534	101
1535	101
1536	101
1537	101
1538=134	101
1539	123
1540	123
1541	417
1542	121
1543	23
1544	121
1545	123
1546	122

Digitized by Google

C.P.	Page	C.P.	Page	C.P.	Page	C.P.	Page
1547	122	1604	103	1661	138	1718	147
1548	122	1605	103	1662	152	1719	147
1549	123	1606	126	1663	155	1720	148
1550=1102	23	1607	127	1664	138	1721	57
1551	122	1608	127	1665	157	1722=1155	58
1552	122	1609	128	1666	153	1723	145, 420
1553	122	1610	124	1667	152	1724=354	146
1554	122	1611	125	1668	145	1725	146, 420
1555	112	1612=197	126	1669	145	1726	146, 420
1556	111	1613	125	1670	208	1727	146, 420
1557=1561	111	1614=197	126	1671	139	1728	146, 420
1558	110	1615	126	1672	151	1729	160
1559	110	1616	125	1673	144	1730	163
1560	111	1617	126	1674	144	1731	163
1561	111	1618	127	1675=1674.		1732	163
1562	111	1619	125	1676	144	1733	163
1563	110	1620	126	1677	200	1734	163
1564	110	1621	128	1678	144	1735	163
1565	110	1622	125	1679	144	1736	160
1566	110	1623	417	1680=1679.		1737	160
1567	110	1624	126	1681	144	1738	160
1568	105	1625	127	1682	151	1739	163
1569	105	1626	127	1683	144	1740	162
1570	105	1627	128	1684	151	1741	160
1571	105	1628	124	1685	152	1742	160
1572	105	1629	127	1686	130	1743	168
1573	105	1630	18	1687	130, 418	1744	163
1574	106	1631=218	71	1688	152	1745	161
1575	104	1632	132	1689	152	1746	168
1576	104	1633	132	1690	152	1747	168
1577	109	1634	130	1691	151, 152	1748	168
1578	106	1635	130	1692	142	1749	167
1579	118	1636	136	1693=113	142	1750	166
1580	117	1637	136	1694	142	1751	167
1581	114	1638	136	1695	151	1752	164
1582	117	1639	186	1696	151	1753	164
1583	117	1640	135	1697	140	1754	164
1584	116	1641	135	1698	143	1755	165
1585=274	118	1642	135	1699	143	1756	165
1586	114	1643	133	1700=91	141	1757	164
1587	118	1644	133	1701	141	1758	164
1588	114	1645	134	1702	141	1759	165
1589	113	1646 }	134	1703	235	1760	165
1590	114	1647 }		1704	139	1761	166
1591	114	1648=198	134	1705	150	1762	166
1592	119	1649	158	1706	140	1763	166
1593	119	1650	17	1707	140	1764	166
1594	103	1651	158	1708	140	1765	166
1595	123	1652	159	1709=728	154	1766	162
1596	103	1653	152	1710	150	1767	163
1597	133	1654	154	1711	150	1768	162
1598	133	1655	159	1712	148	1769	162
1599	133	1656	137	1713	149	1770	162
1600	188	1657	137	1714	150	1771	164
1601	103	1658	137	1715	155	1772	161
1602	103	1659	137	1716	149	1773	170
1603	104	1660	137	1717	156	1774	169

Digitized by Google

C.P.	Page
1775	169
1776	169
1777	169
1778	221
1779	209
1780	222
1781	222
1782	206
1783	207
1784	207
1785	207
1786	208
1787	208
1788	208
1789	207
1790	170
1791 = 1260	78
1792	403
1793	175
1794	175
1795	175
1796	174
1797	175
1798 = 1797.	
1799	172
1800	172
1801 = 1799.	
1802	173
1803	174
1804	173
1805	174
1806	173
1807	190
1808	190
1809	190
1810	190
1811	190
1812	189
1813 = 1807.	
1814	190
1815	181
1816 = 1815.	
1817 = 275	188
1818	188
1819	185
1820	185
1821	188
1822	191
1823	191
1824	442
1825	193
1826	200
1827	192
1828	251
1829	191
1830	196
1831	196
1832	192
1833	192
1834 (1836 in er.)	191
1835	191
1836 (1834 in er.)	191
1837	193
1839	193
1840	193
1841	196
1842	199
1843	194
1844	197
1845 = 1844.	
1846	198
1847	198
1848	198
1849	197
1850	194
1851	195
1852	196
1853	196
1854	197
1855	199
1856	198
1857	197
1858	197
1859	198
1860	197
1861	194
1862	193
1863	194
1864 = 1865.	
1865	195
1866	201, 425
1867	201
1868	113
1869	206
1870	205
1871	204
1872 = 1871.	
1873	204
1874	204, 442
1875	205
1876	203
1877	203
1878	203
1879	214
1880	214
1881	213
1882	214
1883	209
1884	209
1885	214
1886	215
1887	216
1888	216
1889	215
1890	215
1891	215
1892	215
1893	215
1894	215
1895	172
1896	172
1897	217
1898	217
1900	216
1901	216
1902	216
1903	216
1904	217
1905	217
1906	217
1907	217
1908	181
1909	178
1910	178
1911	179
1912	180
1913	180
1914	180
1915	178
1916	183
1917	183
1918	37
1919	35
1920	38, 403
1921	33
1922	213
1923	258
1924	210
1925	213
1926	213
1927 = 1926.	
1928	212
1929	211
1930	211
1931	212
1932	210
1933	210
1934	211
1935	212
1936 = 1939.	
1937	212
1938	210
1939	211
1940	212
1942	212
1943	209
1944	209
1945	210
1946	209
1947	241
1948	243
1949	243
1950	243
1951	243
1952	244
1953	242
1954	214
1955	244
1956	244
1957	244
1958	244
1959	206
1960	206
1961	244
1962	244
1963 (1763 in er.)	121
1964 (1764 in er.)	121
1965	120
1966	120
1967	120
1968	120
1969	120
1970	212
1971	231
1972	235
1973	235
1974	235
1975	234
1976	234
1977	232
1978	235
1979	235
1980	229
1981	232
1982	234
1983	231
1984	234
1985	231
1986	231
1987	225
1988 (1998 in er).	236
1989	236
1990	427
1991	233
1992	234
1993	233
1994	225
1995	234
1996	224
1997	225
1998	227
1999	227
2000	229

Digitized by Google

C.P.	Page	C.P.	Page	C.P.	Page	C.P.	Page
2001	226	2058	239	2116	275	2173	292
2002	226	2059	237	2117	275	2175	293
2003	230	2060	237	2118	272	2176	292
2004	231	2061	237	2119=491	290	2177	293
2005	228	2062	236	2120	287	2178	293
2006	226	2063	237	2121	287	2179	259
2007	226	2064	237	2122	287	2180	260
2008	228	2065	238	2123=2122.		2181	260
2009	227	2066	238	2124	269	2182	260
2010	228	2067	238	2125	268	2183	260
2011	230	2069	238	2126	269	2184	259
2012	227	2070	241	2127=2125.		2185	259
2013	230	2071	240	2128	269	2186	259
2014	231	2072	240	2129	269	2187	261
2015	231	2073	239	2130	284	2188	260
2016	231	2074	240	2131	269, 427	2189	260
2017	232	2075	240	2132	272	2190	261
2018	232	2076	241	2133	282	2191	260
2019	232	2077	239	2134	282	2192	261
2020	224	2078	237	2135	284	2193	259
2021	217	2079	237	2136	282	2194	261
2022	220	2080	236	2137	282	2195	261
2023	209	2081	237	2138	282	2196	260
2024	219	2082	239	2139	282	2197	260
2025	220	2083	238	2140	282	2198	260
2026	220	2084	423	2141	285	2199	261
2027	220	2085	172	2142	282	2200	259
2028	220	2086	171	2143	285	2201	262
2029	220	2087	171	2144	282	2202	258
2030	220	2088	171	2145	283	2203	443
2031	220	2089	171	2146	284	2204	185
2032	219	2090	171	2147	283	2205	119
2033	219	2091	171	2148	283	2206	250
2034	426	2092	271	2149	285	2207	293
2035	218	2093	259	2150	286	2208	289
2036	218	2094	271	2151	280, 428	2209=2208.	
2037	218	2095	271	2152	288	2210	289
2038	218	2096	271	2153	288	2211	287
2039	218	2097	271	2154	281	2212	263
2040	218	2098	271	2155	281	2213	264
2041	218	2099	270	2156	279	2214	264
2042	219	2100	270	2157=557	275	2215	263
2043	219	2101	274	2158	278	2216	191
2044	219	2102	271	2159=2158.		2217	266
2045=2044.		2103	273	2160	278	2218	265
2046	218	2104	272	2161	279	2219	266
2047	219	2105	273	2162=2161.		2220	265
2048	219	2106	273	2163	280	2221	265
2049	218	2107=2105.		2164	280, 428	2222	265
2050	220	2108	273	2165=2151.		2223	265
2051	220	2109	273	2166	280	2224	266
2052	219	2110	276	2167	278	2225	265
2053	240	2111	270	2168	277	2226	265
2054	218	2112	273	2169	269	2227	266
2055	238	2113	276	2170	270	2228	266
2056	237	2114	276	2171	274	2229	266
2057	240	2115	272	2172	292	2230	267

Digitized by Google

C.P.	Page
2231	263
2232	262
2233	427
2234	249
2235	248
2236	249
2237	249
2238	247
2239	248
2240	247
2241	249
2242	249
2243	249
2244	247
2245	247
2246	245
2248	246
2249	246
2250	246
2251	246
2252	246
2253	248
2254	248
2255	248
2256	291
2257	291
2258	291
2259	222
2260	246
2261	246
2262	246
2263	252
2264	252
2265	244
2266	245
2267	190
2268=1923	258
2269	254
2270	254
2271	254
2272=2269.	
2273	427
2274	255
2275	254
2276	255
2277	257
2278	257
2279=413	258
2280	257
2281	257
2282	252
2283	252
2284	252
2285=2284.	
2286	315
2287	315
2288	323
2289	324
2290	323
2291	339
2292	339
2293	338
2294	340
2295	339
2296	332
2297	338
2298	337
2299	337
2300	337
2301	340
2302	338
2303	326
2304	326
2305	331
2306	333
2307	333
2308	333
2309	331
2310	331
2311	290
2312	325
2313	325
2314	321
2315	321
2316	332
2317	332
2318	332
2319	338
2320	325
2321	336
2322	336
2323	336
2324	322
2325	322
2326	322
2327	323
2328	322
2329	322
2330	323
2331	323
2332	323
2333	327
2334	330, 431
2335	330
2336	329
2337	328
2338	324
2339	324
2340	304
2341	304
2342	303
2343	305
2344	303
2345	303
2346	303
2347	302
2348	306
2349	300
2350	298
2351	296
2352	298
2353	298
2354	307, 430
2355	299
2356	299
2357	298
2358	307
2359	296
2360	308
2361	303
2362	299
2363	311
2364	301
2365	307
2366	308
2367	308
2368	300
2369	302
2370	302
2371	308
2372	309
2373	310
2374	310
2375	296
2376	295
2377	313
2378	331
2379	331
2380	333
2381	267
2383	25
2384	143
2386	364
2387	113
2388=1161	78
2389	218
2390=1586	114
2391	136
2392	254
2393	372
2394	370
2395	355
2396	352
2397	351, 434
2398=1921.	
2399	80
2400	204
2401	239
2402	176
2403	40
2404	160, 421
2405	13
2406	8
2407	280
2408=528	166
2409	82
2410	95
2411	177
2412	71
2413	69
2214	184
2415	16
2416	4
2417	40
2418	64, 409
2419	64, 409
2420	48
2421	46, 406
2422	233
2423	34
2424	287
2425	66
2426	66
2427	66
2428=2426.	
2429=1900	216
2430	38, 403
2431	318
2432	337
2433	323
2434	358
2435	186
2436	184
2437	180
2438	179
2439	180
2440	42
2441	42
2442	135
2443	80, 410
2444	76, 410
2445	49
2446	51
2447	52
2448	60
2449	117
2450	116
2451	114
2452	117
2453	117
2454	61
2455	155
2456	155
2457	142
2458	154
2459	271
2460 (2640 in err.)	14

Digitized by Google

C.P.	Page
2461	293
2462	292
2463	262
2464	265
2465	56, 408
2466	195
2467	194
2468	112
2470	152
2471	92
2472	153
2473	427
2474=1795	175
2475	189
2476	83
2477	74, 410
2478=1954	214
2479	60
2480	15
2481	188
2482	82
2483	134
2484	366
2485	253
2486=2485.	
2487	255
2488	256
2489	256
2490	256
2491	256
2492	135
2493	118
2494	118
2495	117
2496	117
2497	17, 400
2498	133
2499	271
2500=2407	280
2501	69, 409
2502	282
2503	10, 399
2504=1193	61
2505	19
2506	296
2507	176
2508	93, 413
2509	15
2510	158
2511	296
2512	156
2513	152
2514=1911	179
2515	192
2516	201
2517	197
2518	192
2519	192
2520	73
2521	117
2522	158
2523	269
2524	32
2525	74
2526	263
2527	306
2528	304
2529	285
2530	288
2531	283
2532	280
2533	181
2534=2208	289
2535=2208.	
2536	256
2537	265
2538	112
2539	118
2540	116
2541	242
2542	42
2543	385
2544	6
2545	55
2546	47, 406
2547	46, 406
2548	195
2549	197
2550	16
2551	133
2552	135
2553	22
2554	135
2555	251
2556	76
2557	163
2558	230
2559	230
2560	285
2561	285
2562	266
2563	267
2564	282
2565	268
2566	29
2567	26
2568	31
2569	43, 405
2570	113
2571	
2572	296
2573	155
2574	1
2575	155
2576	235
2577	58
2578	195
2579	195
2580	198
2581	124
2582	124
2583	17
2584	52
2585=2520.	
2586	76, 410
2587	32
2588	121
2589	134
2590	34
2591	245
2592	170
2593	229
2594	229
2595	68
2596	101
2597	128
2598	173
2599	173
2600	41
2601	281
2602	289
2603	19
2604	19
2605	256
2606	255
2607	152
2608	19
2609	147
2610	152
2611	156
2612	8
2613	54
2614	75
2615	108
2616	109
2617	109
2618	105
2619	106
2620	11
2621	112
2622	116
2623	114, 415
2624	375
2625	365
2626	373
2627	354
2628	355
2629	355
2630	355
2631	355
2632	355
2633	356
2634	350
2635	351, 434
2636	5
2637	60
2638 (2368 in err.)	144
2639	143, 419
2640	19
2641	275
2642=2641.	
2643	313
2644	109
2645	38, 403
2646	38, 403
2647	39, 404
2648	176
2649	79
2650	61
2651	32
2652	149
2653	152
2654	296
2655	300
2656	183
2657	19
2658	38, 403
2659	2
2660	3
2661	98
2662	89
2663	92
2664	294
2665	294
2666	294
2667	174
2668	122
2669	21
2670	198
2671	198
2672	198
2673	201
2674	52
2675	50, 406
2676	76, 410
2677	77
2678	11
2679	55
2680	177
2681	186
2682	119
2683=2685.	
2684	112
2685	111
2686	113
2687	108
2688	187

Digitized by Google

C.P.	Page
2689	174
2690	1
2691	193
2692	34
2693	114
2694	116, 417
2695	49, 406
2696	214
2697	214
2698	242
2699	258
2700	125
2701	254
2702	6
2703	8
2704=196	273
2705	151
2706	148
2707	149
2708	50
2709	157
2710	157
2711	145, 420
2712=2192	261
2713=2199	261
2714	292
2715	165
2716	239
2717	224
2718	233
2719	73
2720	53
2721	134
2722	12
2723	29
2724	252
2725	63
2726	247
2727	11
2728	220
2729	178
2730	180
2731	178
2732	328
2733	367
2734	327
2735	325
2736	318
2737	316
2738	340
2739	313
2740	299
2741	304
2742	297
2743	296
2744	315
2745	354
2746	352
2747	348
2748	347
2749	355
2750	356
2751	355
2752	347, 434
2753 (2573 in err.)	358
2754=881	362
2755	361
2756	363
2757	13
2758	31
2759	31
2760	27
2761	299
2762	199
2763=188	46
2764	51
2765	101
2766	70
2767	101
2768	102
2769	102
2770	102
2771	102
2772	81
2773	254
2774=2772.	
2775	83
2776=1447.	
2777	85
2778	86
2779	86
2780	86
2781	90
2782	89
2783	91
2784	95, 414
2785	96
2786	96
2787 (2784 in error)	64, 409
2788	64
2789	67
2790	66
2791	65
2792	14
2793	123
2794	123
2795	123
2796	121
2797	121
2798	110
2799	108
2800	105
2801	116
2802	416
2803	114
2804	12
2805	126
2806	126
2807	128
2808	128
2809	24
2810	130
2811	123
2812	130
2813	130
2814	133
2815	156
2816	153
2817	142
2818	262
2819	141
2820	137
2821	16
2822	163
2823	335
2824=1761	166
2825	161
2826	166
2827	168
2828	171
2829	173
2830	176
2831	262
2832	177
2833	182
2834	192
2835	185
2836	423
2837	196
2838	199
2839	201
2840	204
2841	204
2842	205
2843	207
2844	208
2845	210
2846=1943	209
2847	211
2848	209
2849	210
2850 (2854 in err.)	211
2851	212
2852=1937	212
2853	213
2854	215
2855	284
2856	264
2857	63
2858	29
2859	212
2860	197
2861	200
2862	116
2863	119
2864	216
2865	216
2866	217
2867	216
2868	216
2869	325
2870	326
2871	326
2872	326
2873	330
2874	330
2875	367
2876	357
2877	348
2878	345
2879	344
2880	218
2881	218
2882	260
2883	220
2884	219
2885	219
2886	220
2887	220
2888	221
2889	222
2890	237
2891	
2892=217	239
2893	242
2894	243
2896	334
2897	226
2898	226
2899	443
2900	225
2901	402
2902	31
2903	33
2904	234
2905	384
2906	22
2907	245
2908	250
2909	249
2910	247
2911	248
2912	249
2913	251
2914	258

Digitized by Google

C.P.	Page
2916	41
2917	51
2918	19
2920	187
2921	255
2922	289
2923	11
2924	179
2925	93, 413
2926 = 2929.	
2927	112
2928	110
2929	110
2930	272
2931	265
2932	124
2933	187
2934 = 1879	214
2935	235
2936	159
2937	24
2938	63
2939	62
2940	76, 410
2941 = 913	359
2942	344
2943	268
2944	268
2945	268
2946	269
2947	282
2948	371
2949	
2951	270
2952	260
2953	292
2954	366
2955	113
2956	292
2957	24
2958	54
2959	112
2960	5
2961	5
2962	14
2963	29
2964	311
2965	356
2966	355
2967	350
2968	363
2969	324
2970 = 3215.	
2971	222
2972	221
2973	87
2974	107
2975	111
2976	129
2977	326
2978	336
2979	321
2980	345
2981	169
2982	299
2983	306
2984	397
2985	397
2986	397
2987	387
2988	379
2989	223
2990	153
2991	149, 425
2992	4
2993	225
2994	233
2995	238
2996	218
2997	31
2998	203
2999	245
3000	245
3001	55
3002	125
3003	68
3004	75
3005	36
3006	212
3007	108
3008	115
3009	173
3010	180
3011	181
3012	176
3013	275
3014	277
3015	286
3016	285
3017	312
3018	319
3019	319
3020	316
3021	317
3022	326
3023	325
3024 = 2329	322
3025	323
3026	322
3027	322
3028	340
3029	345
3030	353
3031	353
3032	363
3033	354
3034	354
3035	354
3036	352
3037	354
3038	347
3039 (3090 in err.)	351, 434
3040	343
3041	343
3042	344
3043	344
3044	344
3045	343
3046	352, 434
3047	352, 434
3048	364
3049	360
3050	391
3051	378
3052	396
3053	396
3055	333
3056	333
3057	
3058	310
3059	392
3060	386
3061	390
3062	393
3063	394
3064	391
3065	223
3066 = 1340	384
3067	384
3068	388
3069	389
3070	388
3071	313
3072	305
3073	394
3074	393
3075	380
3076	381
3077	393
3078	389
3079	368
3080	354
3081	310
3082	320
3083	265
3084	220, 426
3085	221
3086	197
3088	222
3089	223
3091	109
3092	177
3093	147
3094	147
3095	143
3096	390
3097	392
3098	385
3099	281
3100	385
3101	385
3102	387
3103	386
3104	395
3105	379
3106	379
3107	212
3108	222
3109	225
3110	233
3111	219
3112	249
3113	252
3114	3
3115	47, 406
3116	266
3117	28
3118	335
3119	326
3120	313
3121	300
3122	317
3123	320
3124	296
3125	36
3126	30, 401
3127	25
3128	124
3129	87
3130	99
3131	172
3132	144
3133	286
3134	284
3135	367
3136	368
3137	357
3138	365
3139	384
3140	384
3141	383
3142	392
3143	394
3144	386
3145	382, 439
3146	382
3147	379

Digitized by Google

C.P.	Page	C.P.	Page	C.P.	Page	C.P.	Page
3148	53	3205	311	3263	365	3320	375
3149	97	3206	314	3264	383	3321	369
3150	89	3207	314	3265	395	3322	365, 436
3151	38, 403	3208	306	3266	378	3323	358
3152	205	3209	306	3267	383	3324	427
3153	241	3210	324	3268	384	3325	81
3154	247	3211	324	3269	383	3326	87
3155 ? =2278.		3212	338	3270	385	3327 (3329 in er.)	
3156	286	3213	321	3271	391		87
3157	320	3214	333	3272	389	3328	25
3158	52	3215	321	3273	391	3329	397
3159	331	3216	323	3274	392	3330	397
3160	299	3217	323	3275	390	3331	390
3161	355	3218	331	3276	394	3332	385
3162	352, 434	3219	356	3277	389	3333	327
3163	373	3220	349	3278	397	3334	331
3164	369	3221	342	3279	397	3335	9
3165	364	3222	346	3280	377	3336	259
3166	364	3223	323	3281	377	3337	269
3167	365	3224	322	3282	396	3338	77
3168	365	3225	354	3283	377	3339	77
3169	119	3226	353	3284	377	3340	35
3170	206	3227=3327	245	3285=3400	49	3341	35
3171	206	3228	346	3286	394	3342	202
3172	329	3229	347	3287	390	3343	167
3173	334	3230	347	3288	388	3344	140
3174	334	3231	347, 434	3289	384	3345	109
3175	316	3232	348, 433	3290	382	3346	111
3176		3233	350	3291	395	3347	112, 415
3177	295	3234	345	3292	380	3348	246
3178	295	3235	365	3293	396	3349	287
3179	295	3236	359	3294	55	3350	172
3180	295, 429	3237	359	3295	46, 405	3351	229
3181	295	3238	361	3296	121	3352	227
3182	297	3239	358	3297	123	3353	226
3183	297	3240	360	3298	123	3354	234
3184	298	3241	359	3299	123	3355	235
3185=3072	305	3242	361	3300	99	3356	232
3186	299	3243	360	3301	82	3357	234
3187	300	3244	358	3302	110	3358	321
3188	301	3245	371	3303	162	3359	376
3189	301	3546	361	3304	200	3360	397
3190	301	3247	372	3305	267	3361	397
3191	305	3248	366	3306	151	3362	45
3192	306	3249	358	3307	171	3363	386
3193	304	3251	373	3308	171	3364	3
3194	307	3252	375	3309	219	3365	19
3195	305	3253	374	3310	271	3366	222
3196	308	3254	364	3311	388	3367	201, 425
3197	309	3255	375	3312	320	3368	207
3198	356	3256	369	3313	322	3369	208
3199	309	3257	366	3314	322	3370	240
3200	309	3258	368	3315	334	3371	257
3201	310	3259	373	3316	342, 343	3372	261
3202	310	3260	362	3317	349	3373	316
3203	311	3261	369	3318	354, 435	3374	319
3204	312	3262	362	3319	353	3375	295, 429

Digitized by Google

C.P.	Page
3376	304
3377	313
3378	305
3379	308
3380	340
3381	333
3382	341
3383	392
3384	390
3385	430
3386	72, 409
3387	212
3388	330
3389	388
3390	387
3391	391
3392	8
3393	3
3394	181
3395	183
3396	183
3397	7
3398	7
3399	6
3400	49, 406
3401	
3402	52
3403	51, 407
3404	50, 407
3405	34
3406	34
3407	36, 402
3408	36
3409	35
3410	35
3411	35
3412	39, 404
3413	38, 403
3414	38, 403
3415	37, 403
3416	37, 404
3417	139
3418	146, 420
3419	152
3420	153
3421	142
3422	136
3423	157
3424	155
3425	313
3426	260
3427	260
3428	274
3429	279
3430	280
3431	280
3432	285
3433	288
3434	176
3435	238
3436	177
3437	208
3438	116
3439	114
3440	115
3441	112
3442	110
3443	106
3444	77
3445	413
3446	176
3447	177
3448	212
3449	257
3450	62
3451	62
3452	404
3453	134
3454	186
3455	70
3456	69
3457	291
3458	121
3459	251
3460	129
3461	383
3462	297
3463	311
3464	334
3465	320
3466	317
3467 = 3, var. β.	
3468	346
3469	352
3470	371
3471	362
3472	189
3473	177
3474	403
3475	279
3476	182
3477	180
3478	182
3479	112
3480	139
3481	158
3482	154, 421
3483	39, 403
3484	183
3485	96
3486 = 3484	2
3487	384
3488	54
3489	377
3490	69
3491	214
3492 (3392 in err.)	303
3493	311
3494	303, 429
3495	430
3496	334
3497	384
3498	391
3499	89
3500	125
3501	212
3502	386
3503	390
3504	390
3505 (2505 in err.)	168
3506	125
3507	166
3508	56
3510	123
3511	152
3512	87
3513	83
3514	83
3515	301
3516	227
3517	227
3518	256
3519	270
3520	259
3521	401
3522	166
3523	163
3524	411
3525	216
3526	16, 400
3527	6
3528	26
3529	27
3530	302
3531	333
3532	318
3533	291
3534	127
3535	211
3536	211
3537	225
3538	235
3539	166
3540	201, 425
3541	
3542	143
3543	143
3544	411
3545	115
3546	94
3547	99
3548	67
3549	55
3550	22
3551	23
3552	23
3553	28
3554	31
3555	26
3556	368
3557	347
3558	343
3559	343
3560	342
3561	343
3562	341
3563	315
3564	309
3565	314
3566	302
3568	269
3569	270
3570	277
3571	281
3572	240
3573	238
3574	241
3575	224
3576	231
3577	226
3578	232
3579	211
3580	211
3581	204
3582	
3583	165
3584	129
3585	92
3586	90
3587	89
3588	87
3589	88
3590	85
3591	411
3592	83
3593	81, 410
3594	82
3595	403
3596	409
3597	63
3598	84
3599	85
3600	85
3601	95, 414
3602	95
3603	96

Digitized by Google

C.P.	Page
3604	97
3605	98
3606	98
3607	99
3608	82, 410
3609	90
3610	119
3611	120
3612	120
3613	412
3614	441
3615=1131	28
3616	156
3617	421
3618	159
3619	151
3620	152
3621	143
3622	412
3623	236
3624	236
3625	293
3626	229
3627	406
3628	225
3629	247
3630	165
3631	168
3632	169
3633	161
3634	401
3635	221
3636	290
3637	276
3638	401
3639	184
3640	415
3641=3461 (in error)	401
3642	247
3643	248
3644	417
3645	242
3646	401
3647	210
3648	211
3649	212
3650	213
3651	217
3653	399
3654	418
3655	269
3656	419
3657	299
3658	246
3659	339
3660	228
3661	226
3662	233
3663	234
3664	232
3665	422
3666	334
3667	336
3668	314
3669	319
3670	338
3671	362
3672	264
3673	405
3674	400
3675	402
3676	408
3677	416
3678	418
3679	442
3680	339
3681	369
3682	362
3683	358
3684	370
3685	426
3686	321
3687	403
3688	293
3689	294
3690	292
3691	292, 428
3692	292
3693	306
3694	307
3695	297
3696	297
3697	299
3698	297
3699	315
3700	316
3701	317
3702	316
3703	319
3704	317
3705	316
3706	320
3707	404
3708	404
3709	403
3710	403
3711	402
3712	402
3713	402
3714	415
3715	415
3716=2814	133
3717	424
3718	424
3719	425
3720	425
3721	428
3722	396
3723	426
3724	335
3725	336
3726	405
3727	315
3728	319
3729	319
3730	320
3731	321
3732	431
2733	443
3734	324
3735	324
3736	410
3737	407
3738	428
3739	327
3740	327
3741 (3471 in err.)	327
3742	329
3743	329
3744	330
3745	337
3746	336
3747	399
3748	371
3749	371
3750	343
3751	342
3752	343
3753	345
3754	345
3755	345
3756	347
3757=3737	348
3758	348
3759	349
3760	349
3761	350
3762	435
3763	353
3764	432
3765	412
3766	399
3767	427
3768	429
3769	429
3770	427
3771	370
3772	399
3773	401
3774	423
3775	432
3776	432
3777	434
3778	411
3779	434
3780	434
3781	356
3782=919	362
3783	353
3784	367
3785	402
3786	433
3787	432
3788	432
3789	426
3790	413
3791	401
3792	424
3793	424
3794	422
3795	428
3796	435
3797	435
3798	392
3799	395
3800	436
3801	384
3802	391
3803	436
3804	437
3805	431
3806	438
3807	438
3808	438
3809	415
3810	410
3811	411
3812	441
3813	411
3814	412
3815	414
3816	439
3817	412
3818	435
3819	433
3820	430
3821	426
3822	406
3823	407
3824	398
3825	398
3826	399
3827	438
3828=3848.	
3829	432
3830	432

Digitized by Google

C.P.	Page	C.P.	Page	C.P.	Page	C.P.	Page
3831	398	3839	422	3846	436	3853	441
3832	410	3840	429	3847	436	3854	443
3833	401	3841	430	3848	436	3855	443
3834	416	3842	429	3849	443	3856	443
3835	416	3843	441	3850	441	3857	444
3836	417	3844	432	3851	441	3858	444
3837	420	3845	436	3852	442	3859	442
3838	419						

Digitized by Google

INDEX ORDINUM ET GENERUM.

	Page
Abelmoschus, *Med.*	26
Aberia, *Hochst.*	400
Abildgaardia, Vahl	347, 433
Abrus, *Linn.*	91
Abutilon, *Dill.*	27, 401
Acacia, *Willd.*	99, 415
Acalypha, *Linn.*	271
Acampe, *Lindl.*	303
ACANTHACEÆ	223
Acanthonotus, *Benth.*	83
Acanthophippium, *Bl.*	307
Acanthus, *Linn.*	232
Achyranthes, *Linn.*	249
Aclisia, *E. Mey.*	323
Acmena, *DC.*	118
Acorus, *Linn.*	337
Acranthera, *Arn.*	138
Acronychia, *Forst.*	409
Acrostichum, *Linn.*	380, 395, 437
Acrotrema, *Jack.*	2, 398
Actephila, *Bl.*	280
Actiniopteris, *Link*	386
Actinodaphne, *N. ab Es.*	256, 427
Actinostachys	379
Adansonia, *Linn.*	28
Adenanthera, *Linn.*	98
Adelia, Schreb.	272, 275
Adenochlæna, *Boiv.*	270
Adenosma, *N. ab Es.*	224
Adenostemma, *Forst.*	162
Adhatoda	233
Adiantum, *Linn.*	387
Adinandra, *Jack.*	405
Æchmandra, *Arn.*	125
ÆGICERACEÆ	174
Ægicera, *Gærtn.*	174
Æginetia, *Linn.*	221
Æluropus, *Trin.*	374
Aerides, *Lour.*	305, 429
Aerva, *Forsk.*	238, 427
Æschynanthus, *Jack.*	206
Æschynomene, *Linn.*	85
Ætheilema, *R. Br.*	225
Aganosma, *G. Don*	194
Ageratum, *Linn.*	161
Agrimonia, *Tourn.*	102
Agrostis, *Linn.*	370
Agrostistachys, *Dalz.*	279
Agyneia, *Linn.*	283, 288
Ailanthus, *Desv.*	69
ALANGIACEÆ	133
Alangium, *Linn.*	133
Albizzia, *Durazz.*	99
Alchemilla, *Tourn.*	102
Alisma, *Juss.*	332
ALISMACEÆ	332
Allantodia, *Wall.*	385
Allium, *Linn.*	339
Allæanthus, *Thw.*	263
Allæophania, *Thw.*	147, 420
Alocasia	336, 432
Alphonsea, *Hook. f. and T.*	11, 399
Alpinia, *Linn.*	319
Alseodaphne, *N. ab Es.*	254
Alsodeia, *Thouars*	21
Alsophila, *R. Br.*	396
Alstonia, *R. Br.*	193
Alternanthera, *Mart.*	250
Alwisia, *Lindl.*	300
Alysicarpus, *Neck.*	87, 412
Alyxia, *R. Br.*	191
Amanoa, *Aubl.*	280, 428
AMARANTACEÆ	247
Amarantus, *Tourn.*	247, 248
AMARYLLIDACEÆ	324
Amblogyne	248
Ambrosinia	334
Ameletia, *DC.*	122
Ammannia, *Houst.*	121
Amomum, *Linn.*	316, 430
Amoora, *Roxb.*	60, 409
Amorphophallus, *Bl.*	335, 443
AMPELIDEÆ	62
Amphidonax, *N. ab Es.*	370
Amphirhapis, *DC.*	162
Anacardium, *Rottb.*	75

Digitized by Google

Page
Anagallis, *Tourn.* 172
Anamirta, *Colebr.* 12
Anaphalis 166
Anatherum 368
Anaxagorea, *St. Hil.* 10
Ancistrocladeæ 188
Ancistrocladus, *Vahl* 188
Andrographis, *Wall.* 232
Andropogon, *Linn.*, 364, 365, 366, 368, 437
Aneilema, *R. Br.* 322
Anemone, *Linn.* 1
Angiopteris, *Hoffm.* 379, 437
Angræcum, *Thouars* 306
Anguillaria 339
Ania, *Lindl.* 301
Aniseia, *Choisy* 212
Anisocampium 390
Anisochilus, *Wall.* 238
Anisogonium 385
Anisomeles, *R. Br.* 240
Anisonema, A. Juss. 282
Anisophyllea, *R. Br.* 119
Anisophyllum, Don 119
Anodendron, *A. DC.* 194
Anœctochilus, *Bl.* 314
Anogeissus, Wall. 103
Anomospermum, Dalz. 280
Anonaceæ 6
Anstrutheria, *Gardn.* 121
Anthistiria, *Linn.* 366, 436
Anthocometes 234
Antiaris, *Lesch.* 263, 427
Antidesma, *Linn.* 289
Antrophyum 382
Apaturia, *Lindl.* 301
Aphylleia, Champ. 294
Apluda, *Linn.* 364
Apocopis, *N. ab Es.* 365
Apocynaceæ 191
Apodytes, *E. Mey.* 42
Apollonias, *N. ab Es.* 253
Aponogeton, *Thunb.* 333
Aporosa, *Bl.* 288
Apostasia, *Bl.* 315
Apostasiaceæ 315
Appendicula, *Bl.* 306
Aquifoliaceæ 183
Araliaceæ 131
Ardisia, *Linn.* 173, 423
Areca, *Linn.* 327
Argyreia, *Lour.* 209, 210
Arisæma, *Mart.* 335
Aristida, *Linn.* 370
Aristolochia, *Tourn.* 291
Aristolochiaceæ 291
Aroideæ 334

Page
Artabotrys, *R. Br.* 9
Artanema, *Don* 219
Artemisia, *Linn.* 165
Arthrocnemum, *Moq.* 246
Arthromiscus, Thw. 47, 406
Arthrostylis, *R. Br.* 352
Artocarpus, *Linn.* 262, 427
Arum, *Linn.* 334, 335, 336, 432, 443
Arundina, *Bl.* 301
Arundinaria, *Rich.* 375, 437
Arundinella, *Raddi* 362
Arundo 370
Ascarina 293
Asclepiadaceæ 195
Asparagus, *Linn.* 339
Aspidium, *Sw.* 389, 438, 444
Asplenium, *Linn.* 383, 438
Asteracantha 225
Astylis, Wight 287
Asystasia, *Bl.* 235, 427
Atalantia, *Corr.* 44, 405
Ate, *Lindl.* 309
Athyrium 384
Atriplex, *Gærtn.* 246
Atylosia, *W. and Arn.* 91
Aurantiaceæ 44
Avena, *Linn.* 372
Avicennia, *Linn.* 244
Axanthes, Bl. 139, 418
Axinandra, *Thw.* 122
Azadarachta, *A. Juss.* 59
Azima, *Lam.* 191
Azolla, *Lam.* 378

Balanophora, *Forst.* 293
Balanophoreæ 293
Balsamineæ 65
Bambusa, *Schreb.* . . . 375, 376, 437
Barleria, *Linn.* . . . 230, 427, 443
Barringtonia, *Forst.* 119
Barringtoniaceæ 119
Bassia, *Kön.* 175, 423
Batatas, *Rumph.* 210
Batis 263
Batratherum 368
Bauhinia, *Linn.* 98
Baumea, *Gaud.* 353
Begonia, *Linn.* . . . 128, 417, 442
Begoniaceæ 128
Berberideæ 13
Berberis, *Linn.* 13
Berchemia, Neck. 74, 410
Bergera, Kön. 46, 406
Berghausia 363
Bergia, *Linn.* 23
Berrya, *Roxb.* 32
Bhesa, Arn. 72

Digitized by Google

	Page
Bidaria, *Endl.*	198
Bidens, *Linn.*	165
BIGNONIACEÆ	206
Biophytum, DC.	64, 409
Bixa, *Linn.*	16
Blachia, *Baill.*	277
Blackwellia, Comm.	79, 410
Blainvillea, *Cass.*	164
Blechnum, *Linn.*	381
Blepharis, *Juss.*	231
Blumea, *DC.*	163, 422
Blyxa, *Thouars*	332
Bobea, Miq.	421
Böhmeria, *Jacq.*	259, 260
Bœrhaavia, *Linn.*	245
Bolbophyllum, *Thouars*	298
Bonnaya, *Lk. and Otto*	219, 426
BORAGINACEÆ	213
Borassus, *Linn.*	329
Borreria, *Mey.*	151, 442
Botrychium, *Sw.*	378
Boucerosia, *W. and A.*	200
Bouchea, *Cham.*	241
Brachypodium, *Beauv.*	374
Brachypterum, Benth.	93, 513
Brachyramphus, *DC.*	168
Brachyspatha	335, 443
Bradleia, Gærtn.	285
Bragantia, *Lour.*	291
Brassica, *Linn.*	399
Breweria, *R. Br.*	213
Briedelia, *Willd.*	279
Bruguiera, *Lam.*	120
Bryonia, *Linn.*	124, 125, 126, 127
Bryophyllum, *Salisb.*	129
Buchanania, *Roxb.*	78
Buchnera, *Linn.*	220
Bupleurum, *Tourn.*	131
Burmannia, *Linn.*	325
BURMANNIACEÆ	325
BURSERACEÆ	408, 410
Bursinopetalum, *Wight*	42
Butea, *Roxb.*	89
Buterea	226
BYTTNERIACEÆ	29
CACTACEÆ	129
Cadaba, *Försk.*	15
Cæsalpinia, *R. Br.*	94, 414
Cajanus, *DC.*	90
Calamagrostis	370
Calamintha, *Benth.*	239
Calamus, *Linn.*	330, 431
Calanthe, *R. Br.*	308
Callicarpa, *Linn.*	243
Callipteris	385
CALLITRICHACEÆ	290
Callitriche, *Linn.*	290
Calonyction, *Choisy*	211
Calophanes, *Don*	225
Calophyllum, *Linn.*	51, 407
Calosanthes, *Bl.*	206
Calotropis, *R. Br.*	196
Calymmodon	390
Calyptranthes	116, 117
Cambogia	48, 49
Cameraria	191
Campanula, *Linn.*	169
CAMPANULACEÆ	169, 422
Campbellia, *Wight*	427, 443
Campium	380
Campnosperma, *Thw.*	78
Campteria	386, 387
Canarium, *Linn.*	79, 410
Canavalia, *DC.*	88
Canna, *Linn.*	320
Canscora, *Lam.*	204, 442
Cansjera, *Juss.*	251
Cantharospermum	91
Canthium, *Linn.*	152
CAPPARIDACEÆ	14
Capparis, *Linn.*	15, 399
CAPRIFOLIACEÆ	136
Carallia, *Roxb.*	120
Caralluma, *R. Br.*	200
Cardamine, *Linn.*	14, 399, 400
Cardiospermum, *Linn.*	54
Carex, *Linn.*	354, 442
Careya, *Roxb.*	119, 442
Carissa, *Linn.*	191
Carria, Gardn.	40
CARYOPHYLLACEÆ	24
Caryota, *Linn.*	329
Casearia, *Jacq.*	19, 275
Cassia, *Linn.*	95, 414, 441
Cassytha, *Linn.*	258
Catenaria, *Benth.*	86
Catha, Försk.	72, 409
CEDRELACEÆ	61
CELASTRACEÆ	71
Celastrus, *Linn.*	68, 72
Celosia, *Linn.*	247
Celsia, *Linn.*	217
Celtis, *Tourn.*	267
Centotheca, *Desv.*	374
Centranthera, *R. Br.*	220
Centrostachys, *Wall.*	249
Centrostylis, Baill.	270
Cephaloschœnus	352
Cephalostigma, *A. DC.*	422
Cerastium, *Linn.*	24
Ceratogynum, Wight	284
CERATOPHYLLACEÆ	290
Ceratophyllum, *Linn.*	290

Digitized by Google

Page
Ceratopsis, Lindl. 311
Ceratopteris, *Brongn.* 379
Cerbera, *Linn.* 192
Ceriops, *Arn.* 120
Ceropegia, *Linn.* 199
Chætocarpus, *Thw.* 274
Chætocyperus, N. ab Es. . 351, 435
CHAILLETIACEÆ 79
Chamabainia, *Wight* 260
Chamissoa, *Kunth* 247
Championia, *Gardn.* 208
Chasalia, *Comm.* 150, 421
Chavica, *Miq.* 292, 428
Cheilanthes, *Sw.* 387
Cheirostylis, *Bl.* 313
Chenopodium, *Tourn.* 246
Chickrassia, *A. Juss.* 61
Chilocarpus 191
Chionachne, *R. Br.* 357
Chionanthus, *Linn.* 188
Chirita, *Ham.* 207
Chironia 203
CHLORANTHACEÆ 293
Chloranthus, *Sw.* 293
Chloris, *Linn.* 371
Chlorophytum, *Ker* 339
Chloroxylon, *DC.* 61
Chondrachne 346
Chonemorpha, *G. Don* 194
Choripetalum, A. DC. 173
Chorisandra, Wight 281
Christisonia, *Gardn.* . . . 221, 443
Chrysophyllum, *Linn.* 174
Chrysopogon, *Trin.* 366
Cicca 281
Cicendia 204
Cinnamomum, *Burm.* 252
Cirrhopetalum, *Lindl.* 299
Cissampelos, *Linn.* 13, 399
Cissus, *Linn.* 62
Citrullus, *Neck.* 126
Cladium, *P. Browne* 353
Claoxylon, *A. Juss.* 271
Clausena, *Burm.* 47, 406
Cleghornia, *Wight* 194
Cleidion, *Bl.* 272
Cleisostoma, *Bl.* 304
Clematis, *Linn.* 1
Cleome, *DC.* 14
Clerodendron, *Linn.* 243
Cleyera, Thunb. . . . 40, 41, 405
Clitorea, *Linn.* 88
Cluytia 279, 280
Cnemidia, *Lindl.* 314
Coccinea, *W. and A.* 128
Cocculus, *DC.* 13
Cocos, *Linn.* 330
Page
Cœlachne, *R. Br.* 373
Cœlogyne, *Lindl.* 300
Coffea, *Linn.* 154, 421
Coix, *Linn.* 357
Coldenia, *Linn.* 215
Coleus, *Lour.* 238
Colocasia, *Ray* 335, 432
Colubrina, *Rich.* 75
COMBRETACEÆ 103
Combretum, *Löffl.* 103, 415
Commelyna, *Dill.* 321
COMMELYNACEÆ 321
COMPOSITÆ 160
CONNARACEÆ 80
Connarus, *Linn.* 80, 410
Conocarpus, *Gærtn.* 104
Conocephalus 261
CONVOLVULACEÆ 209
Convolvulus 210
Conyza, *Less.* 163
Corchorus, *Linn.* 31, 401
Cordia, *Plum.* 213
Cordyline 338
Corymbis, *Thouars* 314
Corypha, *Linn.* 329
Coscinium, *Colebr.* 12
Cosmostigma, *Wight* 192
Costus, *Linn.* 320
Cottonia, *Wight* 303
Covellia, *Gasparr.* 266
CRASSULACEÆ 129
Cratæva, *Linn.* 14
Crawfurdia, *Wall.* 204
Cressa, *Linn.* 213
Crinum, *Linn.* 324
Crossandra, *Salisb.* 231
Crotalaria, *Linn.* . . . 81, 410, 441
Croton, *Linn.* . . 272, 275, 277, 278
Crozophora, *A. Juss.* 443
CRUCIFERÆ 14, 399
Cryptocarya, *R. Br.* 254
Cryptocoryne, *Fisch.* . . . 334, 432
Cryptolepis, *R. Br.* 195
Cryptophragmium 232
Cucumis, *Linn.* 126, 127
CUCURBITACEÆ 124
Cudrania, Trécul 262
Cudranus, *Rumph.* 262
Cullenia, *Wight* 28
Cupania 56
Curculigo, *Gærtn.* 324
Curcuma, *Linn.* 316, 430
Cuscuta, *Tourn.* 213
Cyanospermum, *W. and A.* 92
Cyanotis, *Don* 323
Cyathea, *Sw.* 396
Cyathocalyx, *Champ.* 9

	Page
Cyathula, *Lour.*	249
CYCADEÆ	294
Cycas, *Linn.*	294
Cyclea, *Arn.*	13
Cyclostemon, *Bl.*	286
Cylindrochilus, Thw.	307, 430
Cylindropus	354
Cymbidium, *Sw.*	302, 307
Cyminosma, Gærtn.	69, 409
Cymodocea, *Kön.*	333
Cynanchum	195, 196, 198
Cynoctonum, *E. Mey.*	195
Cynodon, *Pers.*	371
Cynoglossum, *Tourn.*	215
Cynometra, *Linn.*	97
CYPERACEÆ	342
Cyperus, *Linn.*	342, 351, 432
CYRTANDRACEÆ	206
Cyrtopera, *Lindl.*	302, 429
Cyrtosia, *Bl.*	311
Dactylis	374
Dactyloctenium, *Willd.*	371
Dædalacanthus, *T. And.*	229
Dæmia, *R. Br.*	196
Dalbergia, *Linn.*	93, 413, 414
Dalechampia, *Plum.*	270
Dalzellia, *Wight*	223
Damasonium	332
Daphne	250
Daphnidium, *N. ab Es.*	257
Daphniphyllum, *Bl.*	290
Dasyaulus, *Thw.*	175, 423
DATISCACEÆ	252
Datura, *Linn.*	217
Davallia, *Linn.*	388, 438
Debregeasia	261
Decaneurum	161
Delima, *Linn.*	2
Dendrobium, *Sw.*	297, 299, 429
Dendrocalamus, *N. ab Es.*	376
Dendrocolla, *Bl.*	306, 430
Dendrolobium, *Benth.*	86
Dennstædtia	389
Dentella, *Forst.*	144, 420
Derris, *Lour.*	92, 413
Desmanthus, *Benth.*	98
Desmochæte	249
Desmodium, *DC.*	85, 86, 411, 441
Desmostemon, *Thw.*	278
Detarium, *Juss.*	414
Diacalpe, *Bl.*	396
Dialium, *Linn.*	97
Dianella, *Lam.*	338
Dicellostyles, *Benth.*	401
Dicerma, *DC.*	86
Dichætaria, N. ab Es.	444
Dichilanthe, *Thw.*	136
Dichopsis, *Thw.*	176, 423
Dichrocephala, *DC.*	162
Dichrostachys, *DC.*	99
Dicksonia, *L'Her.*	389
Dicliptera, *Juss.*	235
Diclisodon	393
Dicræa, *Thouars*	222
Dictyospermum	322
Didymocarpus, *Wall.*	207, 426
Dienia, *Lindl.*	297
Digera, *Forsk.*	249
Dilivaria	232
Dillenia, *Linn.*	5, 398
DILLENIACEÆ	2
Dimeria, *R. Br.*	369, 444
Dimocarpus	58
Dimorphocalyx, *Thw.*	278
Dioclea, *H. B. K.*	412
Dioscorea, *Linn.*	325, 431
DIOSCOREACEÆ	325, 442
Diospyros, *Del.*	178, 423
Diplacrum, *R. Br.*	354
Diplazium	385
Diplocentrum, *Lindl.*	306
Diploclinium	129
Diplosiphon	332
DIPSACEÆ	160
Dipsacus, *Tourn.*	160, 421
Dipteracanthus	225
DIPTEROCARPEÆ	33
Dipterocarpus, *Gærtn.*	33, 402
Dischidia, *R. Br.*	198
Discospermum, *Dalz.*	156
Discostigma, Hassk.	49, 406
Disperis, *Sw.*	311
Disporum, *Salisb.*	338
Dithyrocarpus, Kunth	323
Dodonæa, *Linn.*	59
Dolichos, *Linn.*	90
Doodia, *R. Br.*	382
Doona, *Thw.*	34, 402
Dopatrium, *Ham.*	218
Doronicum, *Linn.*	167
Dorstenia, *Plum.*	264
Dracæna, *Vand.*	338
Dracontium	336
Drosera, *Linn.*	21
DROSERACEÆ	21
Drymaria, *Willd.*	25
Drymispermum, *Reinw.*	251, 427
Drymoglossum, *Presl*	381
Drynaria	395
Dumasia, *DC.*	88
Dunbaria, *W. and A.*	90, 412
Dyschoriste, N. ab Es.	225
Dysodidendron, Gardn.	150

Digitized by Google

	Page
Dysophylla, *Bl.*	239
Dysoxylon, *Bl.*	60, 409
EBENACEÆ	178
Ebermaiera, *N. ab Es.*	224
Eccremanthus, Thw.	57, 408
Echinolæna ?	359
Echinolytrum	350
Eclipta, *Linn.*	164
Ehretia, *Linn.*	214
ELÆAGNACEÆ	252
Elæagnus, *Linn.*	252
ELÆOCARPEÆ	32
Elæocarpus, *Linn.*	32
Elæodendron, *Jacq.*	73
Elaphoglossum	380
Elatostema, *Forst.*	259, 427
Eleiotis, *DC.*	412
Eleocharis, R. Br.	351, 435
Eleogiton	350
Eleogynus	351
Elephantopus, *Cass.*	161
Elettaria, *Rheede*	318, 430
Eleusine, *Gærtn.*	371
Ellipanthus, *Hook. f.*	410
Elytraria, *Vahl*	224
Elytrophorus, *Beauv.*	374
Embelia, *Burm.*	172
Emblica, Gærtn.	282
Emilia, *Cass.*	167, 422
Empusa, *Lindl.*	429
Endespermum	94
Endopogon	226
Enhalus, *L. C. Rich.*	332
Entada, *Adans.*	98
Epaltes, *Cass.*	164
Epicarpurus, Bl.	264
Epiphanes	311
Epipogium, *Gmel.*	311
Epistylium, *Sw.*	283, 428
Epithema, *Bl.*	208
Epithinia, *Jack.*	157
Eragrostis, *Beauv.*	373
Eranthemum, *Linn.*	229, 239
Eria, *Lindl.*	299, 300, 429
Eriachne, N. ab Es.	444
ERICACEÆ	170
Erigeron	163
Eriocaulon, *Linn.*	341
Eriochloa, *Humb. and Kunth*	358
Eriococcus, Hassk.	283
Eriodendron, *DC.*	28
Erycibe, *Roxb.*	213
Erythrina, *Linn.*	89
Erythrocarpus	274
Erythrochilus, Reinw.	271
Erythrospermum, *Lam.*	18
ERYTHROXYLEÆ	53
Erythroxylon	54
Eugenia, *Linn.*	113, 114, 416, 417
Eulalia, Kunth	368
Eulophia, *R. Br.*	310
Euphorbia, *Linn.*	268, 427
EUPHORBIACEÆ	268, 442
Euphoria, *Juss.*	408
Eupyrena, W. and A.	153
Eurya, *Thunb.*	41
Euxolus, *Rafin.*	248, 427
Evia, *Comm.*	78
Evodia, *Forst.*	69, 409
Evolvulus, *Linn.*	213
Evonymus, *Linn.*	73
Exacum, *Linn.*	203
Excæcaria, *Linn.*	269
Fagræa, *Thunb.*	200, 425, 442
Falconeria, *Royle*	270
Feronia, *Corr.*	48
Ficus, *Linn.*	264, 265, 266
FILICES	378
Filicium, *Thw.*	408
Fimbristylis, *Vahl.*	347, 348, 433, 434
Firmiana, *Marsili*	29
Flacourtia, *Comm.*	17
FLACOURTIACEÆ	16
Flagellaria, *Linn.*	340
Flemingia, *Roxb.*	92
Fleurya, *Gaud.*	258
Floscopa, *Lour.*	323
Flüggia, Kunth	339
Flüggia, *Willd.*	281
Freycinetia, *Gaud.*	327
Fuirena, *Linn.*	347
Gærtnera, *Lam.*	201, 420, 425
Galactia, *P. Browne*	88
Galera, Bl.	311
Galium, *Linn.*	151, 421
Garcinia, *Linn.*	48, 406
Gardenia, *Ellis*	159, 421
Garnotia, *Brongn.*	363
Gastrodia, *R. Br.*	311
Gaultheria, *Kalm.*	170
Geanthus, Reinw.	319
Gelonium, *Roxb.*	274, 428
Gendarussa	233
Geniosporum, *Wall.*	236
Gentiana, *Tourn.*	204
GENTIANACEÆ	203
Geodorum, *Jacks.*	308
Geophila, *Don*	150
Georchis, *Lindl.*	314
GERANIACEÆ	64
Geranium, *Linn.*	64

Digitized by Google

	Page
Gerardinia, *Gaud.*	259
Gieseckia, *Linn.*	250
Ginalloa?	418
Gironniera, *Gaud.*	267
Givotia, *Griff.*	278
Gleichenia, *Sw.*	379
Glenniea, *Hook. f.*	408
Glinus, *Linn.*	24
Globba, *Linn.*	315
Glochidion, *Forst.*	285
Gloriosa, *Linn.*	339
Glycine, *Linn.*	88
Glycosmis, *Corr.*	45, 406
Glycycarpus, Dalz.	78, 441
Glyptopetalum, *Thw.*	73
Gmelina, *Linn.*	244
Gnaphalium, *Linn.*	166, 422
Gnidia	250
Goldfussia	228
Gomphandra, *Wall.*	44, 405
Gomphia, *Schreb.*	71
Goniopteris	394, 439
Goniothalamus, *Bl.*	6, 398
Gonyanthes	325
GOODENOVIEÆ	169
Goodyera, *R. Br.*	313
Gordonia, *Ellis*	40
Gouania, *Jacq.*	75
Goughia, Wight	290
Govindovia, Wight	314
GRAMINEÆ	356
Grammitis, *Sw.*	382
Grangea, *Adans.*	163
Grayia	362
Grewia, *Juss.*	31, 402
Griffithia, *W. and A.*	158
Grislea, *Löffl.*	122
Grumilea, *Gærtn.*	147, 149
Guarea	60
Guatteria, Ruiz and Pav.	10, 398
Guazuma, *Plum.*	29
Guettarda, *Linn.*	153
Guilandina, *Linn.*	94
GUTTIFERÆ	48
Gymnema, *R. Br.*	197
Gymnogramme	382
Gymnopetalum, *Arn.*	127
Gymnopogon, *Beauv.*	371, 372, 444
Gymnopteris	381, 437
Gymnosporia, *W. and A.*	409
Gymnostachyum, *N. ab Es.*	232, 427
Gynandropsis, *DC.*	14
Gynoon, A. Juss.	285
Gynura, *Cass.*	166, 167
Gyrandra, Wall.	290
Gyrinops, *Gærtn.*	251
Gyrocarpus, *Jacq.*	258
Haagea	128
Habenaria, *Willd.*	309, 310
Hæmatospermum, Wall.	272
HALORAGEÆ	123
Haloragis	123
Halostemma, Wall. mss.	345
Hapalosia, *Wall.*	25
Haplachne	369
Haplostylis	352
Harpullia, *Roxb.*	56
Hebradendron	49
Hedera, *Linn.*	131, 418
Hedyotis, *Lam.*	140, 419
Hedychium, *Kön.*	319
Hedysarum, *Jeaume*	411
Helicia, *Lour.*	250
Helichrysum	166
Helicteres, *Linn.*	28
Heligme, *Bl.*	193
Heliophytum, *DC.*	215
Heliotropium, *Tourn.*	215
Helminthospermum, Thw.	267
Helminthostachys, *Kaulf.*	378
Helosciadium, *Koch*	130
Hemarthria, *R. Br.*	363
Hemicyclia, *W. and A.*	287
Hemidesmus, *R. Br.*	195
Hemigyrosa, *Bl.*	56, 408
Hemionitis, *Linn.*	382
Heracleum, *Linn.*	131
Heritiera, *Ait.*	28
Hernandia, *Plum.*	258
Herpestes, *Gærtn. f.*	218, 426
Heteropogon, *Pers.*	368, 437
Heterostemma, *W. and A.*	198
Hexacentris	223
Heylandia, *DC.*	81
Hibiscus, *Linn.*	26, 401
Hippocratea, *Linn.*	52
HIPPOCRATEACEÆ	52
Hiptage, *Gærtn.*	53
Holarrhena, *R. Br.*	194
Holcus	362, 366
Hologamium	365
Holoptelæa	267
HOMALINEÆ	79
Homalium, *Jacq.*	410
Hopea, *Roxb.*	36, 403
Hortonia, *Wight*	11
Hoya, *R. Br.*	198
Hugonia, *Linn.*	25
HUGONIACEÆ	25
Humata	388
Humboldtia, *Vahl*	97
Hunteria, *Roxb.*	191
Hyalisma, Champ.	294
Hydnocarpus, *Gærtn.*	18

Digitized by Google

	Page
Hydrilla, *Rich.*	331
Hydrobryum, *Endl.*	223
Hydrocera, *Bl.*	68
HYDROCHARIDEÆ	331
Hydrocotyle, *Tourn.*	130
Hydroglossum	379
Hydrolea, *Linn.*	209
HYDROLEACEÆ	209
Hydrophylax, *Linn.*	151
Hygrophila, *R. Br.*	225
Hygroryza, *N. ab Es.*	356
Hymenochæte	351
Hymenolepis	381
Hymenophyllum, *Sm.*	397
HYPERICACEÆ	48
Hypericum, *Linn.*	48
Hypolytrum, *Rich.*	346
Hypoporum	354
HYPOXIDACEÆ	323
Hypoxis, *Linn.*	323
Hyptianthera, *W. and A.*	157, 421
Hyrtanandra, *Miq.*	261
Ichnanthus, *Beauv.*	361
Ichnocarpus, *R. Br.*	194
Ilex, *Linn.*	183
Ilysanthes, *Rafin.*	219
Impatiens, *Linn.*	65, 409
Imperata, *Cyr.*	369
Indigofera, *Linn.*	83, 411
Inga	100
Ionidium, *Ventn.*	20
Iphigenia, *Kunth*	339
Ipomea, *Linn.*	211, 426
Ipsea, *Lindl.*	301
Irina, Bl.	408
Isachne, *R. Br.*	361, 373
Isanthera, *N. ab Es.*	208
Isauxis, Arn.	37, 404
Ischæmum, *Linn.*	364, 365, 436, 444
Isolepis, *R. Br.*	350
Isonandra, *Wight*	176, 423, 442
Ixora, *Linn.*	154, 421
Jambolifera, Linn.	409
Jambosa, *Rumph.*	115
JASMINACEÆ	189
Jasminum, *Tourn.*	189, 424
Jatropha, *Kunth*	277
Jonesia, *Roxb.*	97
Josephia, *Wight*	307
Julostylis, *Thw.*	30
JUNCACEÆ	340
Juncus, *DC.*	340
Jussiæa, *Linn.*	123
Justicia, *Linn.*	233, 235, 427

	Page
Kadsura, *Juss.*	5
Kæmpferia, *Linn.*	316
Kalanchoe, *Adans.*	129, 417
Kanilia, *Bl.*	120
Karivia	125
Kayea, *Wall.*	50, 407
Kirganelia, *Juss.*	282
Klugia, *Schlecht.*	208
Knoxia, *Linn.*	151
Kokoona, *Thw.*	52
Kurrimia, *Wall.*	72, 409
Kydia, Roxb.	30, 401
Kyllingia, *Linn.*	345
LABIATÆ	236
Lablab, *Adans.*	90
Lactuca	168
Lagenandra, *Dalz.*	334, 432
Lagenophora, *Cass.*	162
Lagerströmia, *Linn.*	122
Lagunea, *Cav.*	27
Langsdorffia	293
Lantana, *Linn.*	242
Laportea, *Gaud.*	259
Lappago, *Schreb.*	362
Lasia, *Lour.*	336
Lasianthera, *Beauv.*	44, 405
Lasianthus, *Jack.*	145, 420
Lasiosiphon, *Fresen.*	250
Lastrea	391
LAURACEÆ	252
Lawia, Tulasne	223
Lawsonia, *Linn.*	122
Ledebouria, *Roth.*	432
Leea, *Linn.*	64
Leersia, *Soland.*	356
Legnotideæ	120
LEGUMINOSÆ	81
Leiopyxis, Miq.	428
Lemna, *Linn.*	331
LENTIBULARIEÆ	171
Leonotis, *R. Br.*	241
Lepidenia, N. ab Es.	254
Lepidagathis, *Willd.*	231
Lepidostachys, Wall.	288
Lepironia, *Rich.*	346, 433
Leptacanthus	229
Leptadenia, *R. Br.*	198
Leptaspis, *R. Br.*	357
Leptochloa, *Beauv.*	371
Leptogramme	382
Leptostachya	233
Lepurandra	263
Lettsomia	210
Leucas, *Benth*	240
Leucocodon, *Gardn.*	138
Leucostegia	388

Digitized by Google

Page
Ligustrum, *Tourn* 188
Liliaceæ 337
Limacia, *Lour.* 12
Limnanthemum, *Gmel.* 205
Limnocharis 352
Limnophila, *R. Br.* 218
Limonia, *Linn.* 45, 405
Lindenbergia, *Lehm.* 218
Lindsæa, *Dryand.* . . . 388, 438
Linociera 188
Lineæ 25
Linum, *Linn.* 25
Liparis, *Rich.* . . . 295, 306, 429
Lipocarpha, *R. Br.* 347
Lippia, *Linn.* 241
Litobrochia 387
Litsæa, *Juss.* 257
Lobelia, *Linn.* 169
Loganiaceæ 200
Lomaria, *Willd.* 381
Lophatherum, *Brongn.* 374
Loranthaceæ 133
Loranthus, *Linn.* 133, 418
Loxogramme 382
Ludwigia, *Roxb.* 123
Luffa, *Tourn.* 126, 417
Luisia, *Gaud.* 302, 429
Lumnitzera, *Willd.* 103
Luvunga, *Ham.* 47, 406
Lycopodiaceæ 377
Lycopodium, *Linn.* 377
Lygodium, *Sw.* 378, 437
Lysimachia, *Linn.* 172
Lythrariaceæ 121

Maba, *Forst.* 183
Macaranga, *Thouars* . . . 274, 428
Machilus, *Rumph* 254
Maclura, Bl. 262
Macræa, Wight 282
Macreightia, *A. DC.* . . . 183, 423
Mæsa, *Forsk.* 172
Magnoliaceæ. 5
Malacochæte 351
Mallea, *A. Juss.* 60
Malpighiaceæ 53
Malvaceæ 25
Malvastrum, *A. Gray* 441
Mangifera, *Linn.* 75
Manisuris, *Linn.* 364
Mappia, *Jacq.* 43
Maranta, *Plum.* 320
Marantaceæ 320
Marattia, *Sw.* 379
Mariscus 344, 345
Marsdenia, *R. Br.* 197
Marsilea, *Linn.* 378
Marsileaceæ 378
Martynia 207, 228
Marumia 110
Medinella, *Gaud.* 106
Megalachne, *Steud.* . . . 372, 444
Melanthesa, *Bl.* 285
Melanthium 339
Melastoma, *Linn.* 106
Melastomaceæ 104
Melia, *Linn.* 59, 408
Meliaceæ 59
Melica 371
Meliosma, *Bl.* 59, 408
Melochia, *Linn.* 30
Melothria, *Linn.* 124, 417
Memecylon, *Linn.* . 110, 415, 416
Memorialis, Ham. 261
Meniscium, *Schreb.* . . . 382, 438
Menispermaceæ 12
Mentha, *Linn.* 239
Menyanthes 205, 206
Meoschium 364, 444
Mephitidia, Reinw. . . . 145, 420
Mesua, *Linn.* 50, 406, 407
Methonica 339
Meyenia 224
Mezoneurum, *Desf.* 414
Michelia, *Linn.* 5
Microcarpæa, *R. Br.* 220
Micrococca, Benth. 271
Microlepia 389, 438
Micromelum, *Bl.* 46
Microrhynchus, *Less.* 168
Microstachys, *A. Juss.* 270
Microstylis, *Nutt.* . . . 296, 429
Microtropis, *Wall.* 71
Milium 358
Miliusa, *Lesch.* 10
Millingtonia, Roxb. 59
Milnea, *Roxb.* 60
Mimusops, *Linn.* 175
Miquelia 363
Mischodon, *Thw.* 275, 428
Mitrasacme, *Labill.* 200
Mitrephora, *Bl.* 8
Mnesithea, *Kunth* 365
Mnianthus, Walp. 223
Moacurra, *Roxb.* 79
Modecca, *Linn.* 128
Mærua, *Forsk.* 15
Molinæa 56
Mollugo, *Linn.* 24
Momordica, *Linn.* 126
Monimiaceæ 11
Monocera, *Jack.* 33
Monochilus, *Wall.* 313
Monochoria, *Presl* 321

Digitized by Google

Page
Monogramme 381
Monoporandra, Th. 39, 404
Monothecium, *Hochst*. 234
Moonia, *Arn*. 164
Morinda, *Vaill*. 144, 420
Morisia 352
Morocarpus, *Sieb. and Zucc*. . . 261
Moschosma, *Reich*. 237
Mucuna, *Adans*. 89
Mukia, *Arn*. 125
Muldera, *Miq*. 428
Munronia, *Wight* 59
Murraya, *Kön*. 45, 406
Musa, *Schreb*. 321
MUSACEÆ 321
Mussænda, *Linn*. 138
Myriactis, *Less*. 162
Myriogyne, *Less*. 165
Myriophyllum, *Willd*. 123
Myristica, *Linn*. 11, 399
MYRISTICACEÆ 11
MYRSINACEÆ 172
Myrsine, *Linn*. 173
MYRTACEÆ 114
Myrtus, *Tourn*. 114

Nageia, Roxb. 287
NAIADACEÆ 333
Naraveli, *DC*. 1
Nasturtium, *R. Br*. 399
Nauclea, *Linn*. 137
Necamandra, *Planch*. 332
Nelitris, Gærtn. 153
Nelsonia, *R. Br*. 224
NELUMBIACEÆ 14
Nelumbium, *Juss*. 14
Nematostigma, Planch. 267
NEPENTHACEÆ 290
Nepenthes 290
Nephelium, *Linn*. . . . 57, 408, 408
Nephrodium 390–393
Nephrolepis, *Schott* 393
Neptunia, *Lour*. 99
Nesæa, *Comm*. 417
Neurocalyx, *Hook*. 138
Niehbuhria 15
Nipa, *Rumph*. 327
Niphobolus 395
Nomismia, *W. and A*. 91
Norysca 48
Notelæa 188
Nothopegia, *Bl*. 441
Nothosærva, *Wight* 248
Notonia, *DC*. 168
Notothixos? 418
NYCTAGINACEÆ 245
Nyctanthes, *Juss*. 190

Page
Nymphæa, *Linn*. 14
NYMPHÆACEÆ. 14

Oberonia, *Lindl*. 296
Ochlandra, *Thw*. 376
Ochna, *Linn*. 70, 409
OCHNACEÆ 70
Ochrosia, *Juss*. 192
Ocimum, *Linn*. 236
Octarrhena, *Thw*. 305
Odina, *Roxb*. 78
ŒCEOCLADES, *Lindl*. 306
OLACACEÆ 41
Olax, *Linn*. 42
Olea, *Tourn*. 188
OLEACEÆ 188
Oleandra, *Cav*. 393
ONAGRACEÆ 123
Oncosperma, *Bl*. 328
Ophelia, *Don* 205, 426
Ophioglossum, *Linn*. 378
Ophiopogon, *Ker*. 339
Ophiorrhiza, *Linn*. . . . 139, 419
Ophioxylon, *Linn*. . . . 191, 424
Opilia, *Roxb*. 41
Oplismenus 359
ORCHIDACEÆ 295
Orchis 310
Oreocnide, *Miq*. 261
Ormocarpum, *Beauv*. 85
Ornithopteris 386
OROBANCHACEÆ 221, 427
Oropetium, *Trin*. 363
Orophea, *Bl*. 8
Orthosiphon, *Benth*. 237
Oryza, *Linn*. 357
Osbeckia, *Linn*. 104
Osmelia, *Thw*. 20
Osmunda, *Linn*. 379
Osyris, *Linn*. 251
Otonychium, Bl. 56
Ottelia, *L. C. Rich*. 332
OXALIDACEÆ 64
Oxalis, *Linn*. 64, 409
Oxystelma, *R. Br*. 196

Pachycentria, *Bl*. 107
Pachygone, *Miers* 13
Palenga, *Thw*. 287
Palimbia, *Bess*. 131
PALMACEÆ 327
Pancratium, *Linn*. 324
PANDANEÆ. 327
Pandanophyllum, *Hassk*. . 345, 433
Pandanus, *Linn*. 327
PANGIACEÆ 18
Panicum, *Linn*. 358, 361, 362, 436, 443

Digitized by Google

	Page
PAPILIONACEÆ	18
Paramignya, *Wight*	47, 406
Paratropia	132
Paritium, *A. Juss.*	26
Parochætus, *Ham.*	82
PARONYCHIACEÆ	25
Parsonia	193
Paspalum, *Linn.*	357
PASSIFLORACEÆ	128
Patania	389
Pavetta, *Linn.*	155
Pavonia, *Cav.*	26, 401
Pedalium, *D. Roy*	209
Pedicularis, *Linn.*	221
Pegia?	441
Pellœa	386
Pellionia, *Gaud.*	259
Peltandra, *Wight*	281
Pemphis, *Forst.*	122
Pentaloba	21
Pentatropis, *R. Br.*	196
Peperomia, *Ruiz and Pav.*	292
Peplidium, *Del.*	426
Pericopsis, *Thw.*	413
Periostrophe, *N. ab Es.*	234
Peristylus, *Bl.*	310
Perotis, *Ait.*	369
Pestalozzia, *Moritzi*	124
Peucedanum	131
Phaius, *Lour.*	300
Phalangium?	339
Pharbitis, *Choisy*	210
Phaseolus, *Linn.*	89, 412
Phoberos, Lour.	16, 400
Phœnix, *Linn.*	329
Pholidota, *Lindl.*	300
Photinia, *Lindl.*	100
Phragmites, *Trin.*	370
Phreatia, *Lindl.*	299
Phyllanthus, *Linn.*	282, 284, 285
Phyllodium, *Desv.*	86
Phymatodes	395
Physalis, *Linn.*	217
Physurus, *L. C. Rich.*	314
PHYTOLACCACEÆ	250
Pilea, *Lindl.*	259
Piliostigma, *Hochst.*	98
Pimpinella, *Linn.*	131
Piper, *Linn.*	292
PIPERACEÆ	292
Piptostylis	406
Pisonia, *Plum.*	245
Pistia, *Linn.*	331
PISTIACEÆ	331
Pithecolobium, *Mart.*	100
PISTTOSPOREÆ	68
Pittosporum, *Sol.*	68
Pityranthe, *Thw.*	29
Pladera, *Roxb.*	204, 425
PLANTAGINACEÆ	245
Plantago, *Linn.*	245
Platanthera, *Rich.*	310
Platea, Bl.	44, 405
Plecospermum, *Trécul*	263
Plectranthus, *L'Her.*	237
Pleocnemia	390
Pleopeltis	394
Pleurostylia, *W. and A.*	71
PLUMBAGINACEÆ	244
Plumbago, *Tourn.*	244
Poa, *Linn.*	372, 373
Podadenia, *Thw.*	273, 428
Podanthera, Wight	311
Podochilus, *Bl.*	306
PODOSTEMACEÆ	222
Podostemon, *Mich.*	222
Pœcilopteris	380
Pogonatherum, *Beauv.*	365
Pogonia, *Juss.*	430
Pogonotrophe, *Miq.*	266
Pogostemon, *Desf.*	239
Polanisia, *Rafin.*	14
Pollia, *Thunb.*	323
Pollinia, *Trin.*	368
Polyalthia, *Bl.*	9, 398
Polybotrya	380
Polycarpæa, *Lam.*	25
Polygala, *Linn.*	22, 400
POLYGALACEÆ	22
POLYGONACEÆ	245
Polygonum, *Linn.*	245
Polyodontia?	102
Polypodium, *Linn.*	393, 439, 444
Polypogon, *Desf.*	370, 444
Polystachya, *Hook.*	307, 308
Polystichum	389
Pometia, *Forst.*	408
Pongamia, *Linn.*	92
Pontedera	321
PONTEDERACEÆ	321
Portulaca, *Tourn.*	23, 401
PORTULACACEÆ	23
Posidonia, *Kön.*	333
Potamochloa	356
Potamogeton, *Linn.*	333
Potentilla, *Linn.*	101
Poterium, *Linn.*	102
Pothomorphe, *Miq.*	292
Pothos, *Linn.*	336
Pouzolzia, *Gaud.*	260, 261
Premna, *Linn.*	242
PRIMULACEÆ	172
Prismatomeris, *Thw.*	154, 421
Pristidia, Thw.	149, 420, 425

Digitized by Google

	Page
Procris, *Comm.*	260
Prosaptia	389
Prosorus, *Dalz.*	281
PROTEACEÆ	250
Protium, *Burm.*	78, 410
Pseudanthus, Wight	248
Pseudarthria, *W. and A.*	87
Psilotrichum, *Bl.*	248
Psilotum, *Sw.*	378
Psoralea, *Linn.*	84
Psychotria, *Linn.*	147, 148
Pteridophyllum, Thw.	58, 408
Pteris, *Linn.*	381, 386, 438
Pterocarpus, *Linn.*	92
Pteroloma, *Desv.*	86
Pterospermum, *Schreb.*	30
Pterostigma, *Benth.*	218, 426
Pterygostachyum, N. ab Es.	444
Pterygota, *Endl.*	29
Ptilotus, *R. Br.*	248
Ptychosperma, *Labill.*	328
Ptyssiglottis, *T. And.*	235
Pupalia, *Juss.*	249
Putranjiva, *Wall.*	287
Pycnospora, *R. Br.*	92
Pygeum, *Gærtn.*	102
Pyrenacantha, *Hook.*	290
Pyrospermum, Miq.	409
Pyrularia, *Mich.*	25
Randia, *Houst.*	159
RANUNCULACEÆ	1
Ranunculus, *Linn.*	1
Reichenheimia	128
Reidia, Wight	283
Remirea, *Aubl.*	345
Remusatia	336
RESTIACEÆ	341
Rhabdia, *Mart.*	214
RHAMNACEÆ	73
Rhamnus, *Linn.*	74, 282, 410
Rhamphidia, *Lindl.*	313
Rhaphidophora	336
Rhaphidospora	234
Rhesa, Walp.	72
Rhinacanthus, *N. ab Es.*	234
Rhipsalis, *Gærtn.*	129
Rhizophora, *Linn.*	120
RHIZOPHORACEÆ	120
Rhododendron, *Linn.*	170
Rhus	59
Rhynchosia, *Lour.*	91, 412, 441
Rhynchospora, *Vahl*	352, 435
Rhytiglossa	235
Rissoa	46
Rivea, *Choisy*	209
ROSACEÆ	100
Rostellularia, *Reichen.*	234, 235
Rotala, *Linn.*	122
Rothia, *Pers.*	82
Rottböllia, *Linn.*	361, 363, 364
Rottlera, *Roxb.*	272, 274
Roumea, Poit.	18, 400
Rourea, *Aubl.*	80
Roxburghia, *Dryand.*	432
Rubia, *Tourn.*	151, 421
RUBIACEÆ	137
Rubus, *Linn.*	101
Ruellia, *Linn.*	225, 227
Rungia, *N. ab Es.*	234
Ruppia, *Linn.*	333
SABIACEÆ	408
Saccharum, *Linn.*	368, 369
Saxolabium, *Bl.*	303, 429
Sageræa, *Dalz.*	6
Sageretia, *Brongn.*	410
Salacia, *Linn.*	53, 407
Salicornia, *Linn.*	443
Salmalia, *Sch. and Endl.*	28
Salomonia, *Lour.*	22
SALSOLACEÆ	246
Salvadora, *Linn.*	190
SALVADORACEÆ	190
Samadera, *Gærtn.*	70
Samara, *Linn.*	173
SAMYDACEÆ	19
Sanicula, *Tourn.*	130
Sanseviera, *Thunb.*	338
SANTALACEÆ	251
SAPINDACEÆ	54
Sapindus, *Linn.*	55, 408
Sapium, *Jacq.*	259
Sapota, *Plum.*	175
SAPOTACEÆ	174
Sarcandra	293
Sarcanthus	303
Sarcoclinium, *Wight*	279
Sarcococca, *Lindl.*	290
Sarcostemma, *R. Br.*	196
Sarosanthera, Korth.	41, 405
Satyrium, *Sw.*	308
Sauropus, *Bl.*	284
Savia, Willd.	280
SAXIFRAGACEÆ	130
Scævola, *Linn.*	169
Scepa, Lindl.	288
Schizachyrium	368
Schizæa, *Sm.*	379
SCHIZANDRACEÆ	5
Schizoloma	388
Schizostigma, *Arn.*	139
Schleichera, *Willd.*	58
Schmidelia, *Linn.*	55, 408

Digitized by Google

Page
Schumacheria, *Vahl* 4
Sciaphila, *Bl.* 294
Scindapsus, *Schott* 336
Scirpus, *Linn.* 347, 350, 351, 352, 434
Scleria, *Linn.* 353, 435
Sclerostylis, Bl. 46, 405
Scolopia 400
SCROPHULARIACEÆ 217
Scutellaria, *Linn.* 239
Scutia, *Comm.* 75
Scutinanthe, *Thw.* 78, 410
Scyphellandra, *Thw.* 21
Scyphostachys, *Thw.* 157
Secamone, *R. Br.* 195
Selaginella, *Spring.* 377
Semecarpus, *Linn.* 75, 410
Senacia 68
Senecio, *Less.* 167, 422
Serissa, *Comm.* 150
Serpicula, *Linn.* 123, 331
SESAMEÆ 209
Sesamum, *Linn.* 209, 442
Sesbania, *Pers.* 84, 441
SESUVIACEÆ 23
Sesuvium, *Linn.* 23
Setaria 361
Sethia, *Kunth* 53
Shorea, *Roxb.* 86, 402
Shutereia, *Choisy* 212
Shuteria, *W. and A.* 88
Sida, *Linn.* 27
Siegesbeckia, *Linn.* 164
SIMARUBEÆ 70
Sium 130
Slegotia, *Reich.* 204
Smilax, *Tourn.* 338
Smithia, *Ait.* 85
Soja, *Mœnch* 88
SOLANACEÆ 216
Solandra 200
Solanum, *Tourn.* 216
Solidago 162
Sonchus, *Linn.* 168
Sonerila, *Roxb.* 107
Sonneratia, *Linn.* 123
Sophora, *Linn.* 94, 414
Sopubia, *Ham.* 220
Spathiostemon, *Bl.* 272
Spathodea, *Beauv.* 206
Spermacoce, *Linn.* 151
Sphæranthus, *Vaill.* 162
Sphærocarya 251
Sphenoclea, *Gærtn.* 170
SPHENOCLEACEÆ 170
Sphragidia, Thw. 286
Spilanthes, *Jacq.* 165
Spinifex, *Linn.* 362
Spiranthes, *L. C. Rich* 312
Splitzgerbera 260
Spodiopogon, *Trin.* 365
Sponia, *Comm.* 267, 443
Sporobolus, *R. Br.* 370
Stachytarpha, *Vahl* 241
STAPHYLEACEÆ 71
Stegnogramme 383
Stellaria, *Linn.* 24
Stemonoporus, Thw. 37, 403
Stemonurus, Bl. 43, 405
Stenochlæna 380
Stenosiphonium, *N. ab Es.* . 225, 228
Stenotaphrum, *Trin.* 361
Stephania, *Lour.* 13
Sterculia, *Linn.* 29
STERCULIACEÆ 28
Stereospermum, *Cham.* 206
Stratiotes 332
Stravadium, Juss. 119
Streblus, *Lour.* 264
Streptogyne, *Beauv.* 374
Streptostigma, Thw. 56
Striga, *Linn.* 220
Strobilanthes, *Bl.* 226
Strombosia, *Bl.* 42
Strongylocalyx, *Bl.* 116
Strongilodon, *Vogel* 89
Strychnos, *Linn.* 201, 425
STYLIDIEÆ 168
Stylidium, *Sw.* 168, 422
Stylocoryne, *Cav.* 158, 421
Stylosanthes, *Sw.* 84
Suæda, *Forsk.* 246
Susum, *Bl.* 340
Sykesia 202
Symphorema, *Roxb.* 242
Symphyllia, Baill. 270
SYMPLOCEÆ 184
Symplocos, *Jacq.* 184
Syzygium, *Gærtn.* 116, 417

Tabernæmontana, *Plum.* . 191, 192
Tacca, *Forst.* 325
Tæniopsis. 381
Tæniophyllum, *Bl.* 305
Tamarindus, *Linn.* 95
TAMARISCINEÆ 23
Tamarix, *Linn.* 401
Taxotrophis, *Bl.* 264, 427
Tephrosia, *Pers.* 84, 411
TEREBINTHACEÆ 75
Terminalia, *Linn.* 103
Ternströmia, *Linn. f.* 405
TERNSTRÖMIACEÆ 40
Terpnophyllum, Th. 49, 406
Tetracera, *Linn.* 2

Digitized by Google

Page
Tetracrypta, Gardn. and Champ. . 119
Tetramelus, *R. Br.* 252
Tetranthera, *N. ab Es.* 254
Teucrium, *Linn.* 241
Thalassia, *Soland.* 333
Thalictrum, *Linn.* 1
Thamnopteris 383
Thespesia, *Corr.* 27
Thismia, *Griff.* 325
Thouarea, *Pers.* 362
Thunbergia, *Linn. f.* 223
THYMELACEÆ 250
Tiaridium 215
TILIACEÆ 31
Tiliacora, *Colebr.* 12
Timonius, *Rumph.* 153, 421
Tinospora, *Miers* 12
Toddalia, *Juss.* 69
Torenia, *Linn.* 219
Tournefortia, *Linn.* 214
Toxocarpus, *W. and A.* 195
Trachys, *Pers.* 362
Tragia, *Plum.* 270, 271
Trapa, *Linn.* 124
Trewia, *Linn.* 272
Trianthema, *Sauv.* 23
Tribrachys, Champ. 325
Tribulus, *Tourn.* 68
Trichadenia, *Thw.* 19
Trichaurus, Arn. 23, 400
Trichelostylis 348
Trichodesma, *R. Br.* 216
Trichomanes, *Linn.* 397
Trichopodium, *Lindl.* . . . 291, 443
Trichopus, Gærtn. 291
Trichosanthes, *Linn.* 126
Tridens 372
Trigonostomon, *Bl.* 277, 428
Trimeriza 291
Tripogon, *Roth* 374
Tripterospermum, Bl. 204
Tristicha 223
Triticum, *Linn.* 376
Triumfetta, *Plum.* . . . 31, 401, 444
TRIURIDACEÆ 294
Trophis, Willd. 262, 264
Tropidia, *Lindl.* 314
Turpinia, *Vent.* 71
Tylophora, *R. Br.* 196, 424
Typha, *Linn.* 331
TYPHACEÆ 331
Typhonium, Schott 334

Ulmus, *Linn.* 267
UMBELLIFERÆ 130
Uncaria, *Schreb.* 138, 418
Unona, *Linn.* 9, 398

Page
Uralepis, *Nutt.* 372
Urandra, Thw. 43
Uraria, *Desv.* 85, 411
Urena, *Linn.* 25
Urochloa 358
Uropetalum, *Gawl.* 443
Urophyllum, *Jack.* 58
Urostigma, *Gasparr.* 264
Urtica 259, 261, 262
URTICACEÆ 258
Utricularia, *Linn.* 171, 423
Uvaria, *Linn.* 6

VACCINIEÆ 170
Vaccinium, *Linn.* 170
Vaginularia, *Fée* 381
Vahlia, *Thunb.* 130, 418
Valeriana, *Neck.* 159, 421
VALERIANACEÆ 159
Vallaris, *Burm.* 192
Vallisneria 331, 332
Vanda, *R. Br.* 303, 305, 429
Vandellia, *Linn.* 219
Vanilla, *Plum.* 311
Vateria, *Linn.* 36, 403
Vatica, *Linn.* 404
Ventilago, *Gærtn.* 74
VERBENACEÆ 241
Vernonia, *Schreb.* 160, 421
Viburnum, *Linn.* 136
Vicoa, *Cass.* 164
Vigna, *Savi* 90
Villebrunia, Gaud. 261
Viola, *Linn.* 20
VIOLACEÆ 20
Visania 188
Viscum, *Tourn.* 136, 418
Vitex, *Linn.* 244
Vitis, *Linn.* 62, 63
Vittaria, *Sm.* 381, 438
Volkameria 243

Wahlenbergia, *Schr.* 169
Walkera 71
Walsura, *Roxb.* 61
Waltheria, *Linn.* 30
Webera 158
Wedelia, *Jacq.* 165
Wendlandia, *Bartl.* 159
Wikströmia, *Endl.* 250
Willughbeia, *Roxb.* 191
Winchia 191
Wissadula, *Med.* 27
Withania, *Duval* 217
Wollastonia, *DC.* 165
Wormia, *Rottb.* 40
Wrightia, *R. Br.* 193, 424

Digitized by Google

	Page
Xanthium, *Tourn.*	164
Xanthochymus, *Roxb.*	46
Xanthophyllum, *Roxb.*	23, 400
XANTHOXYLACEÆ	69
Xanthoxylon, *Linn.*	69, 409
Ximenesia, *Cav.*	422
Xylocarpus, *Kön.*	61
Xylopia, *Linn.*	9, 398
XYRIDACEÆ	340
Xyris, *Linn.*	340
Youngia, *Cass.*	168
Zanonia, *Linn.*	124, 442
Zehneria, *Endl.*	125
Zeuxine, *Lindl.*	312
Zingiber, *Gærtn.*	315, 430
ZINGIBERACEÆ	315
Zizyphus, *Tourn.*	73
Zornia, *Gmel.*	84
Zosterostylis, *Bl.*	312
Zoysia, *Willd.*	370
ZYGOPHYLLEÆ	68
Zygospermum, Thw.	281

THE END.

JOHN EDWARD TAYLOR, PRINTER,
LITTLE QUEEN STREET, LINCOLN'S INN FIELDS.

Digitized by Google